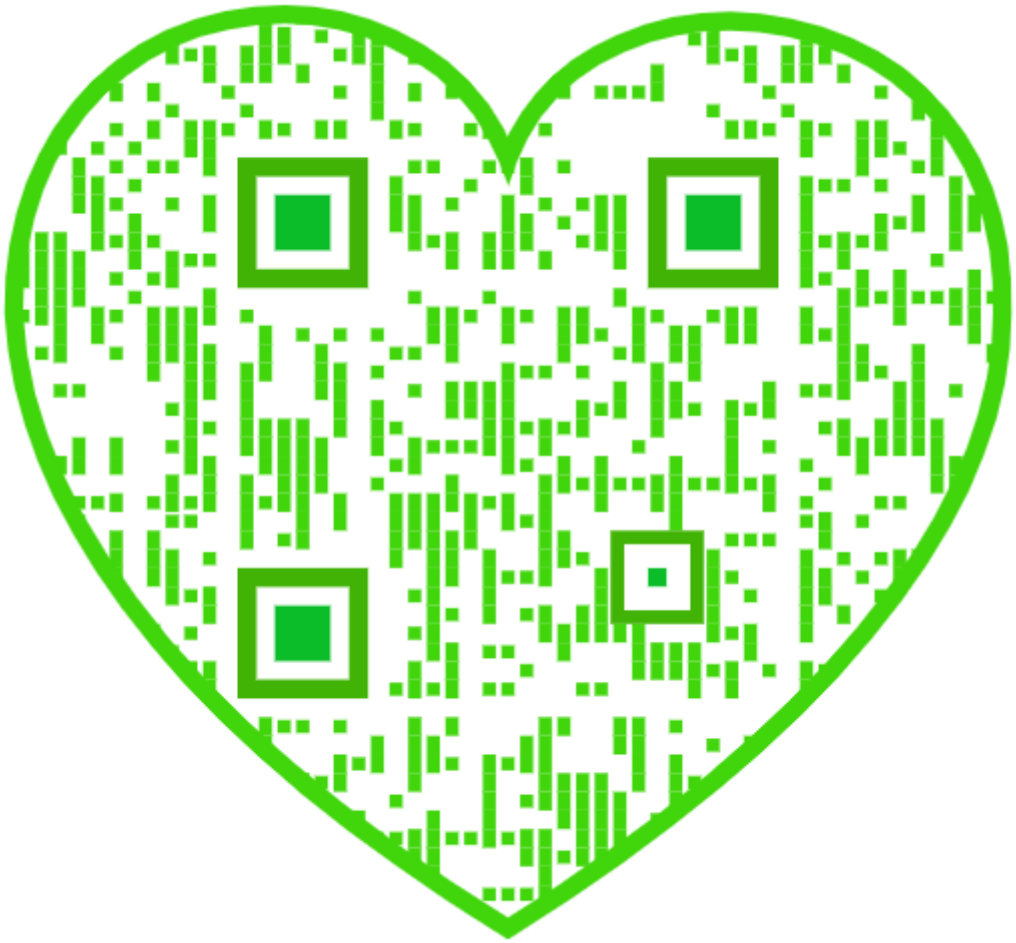
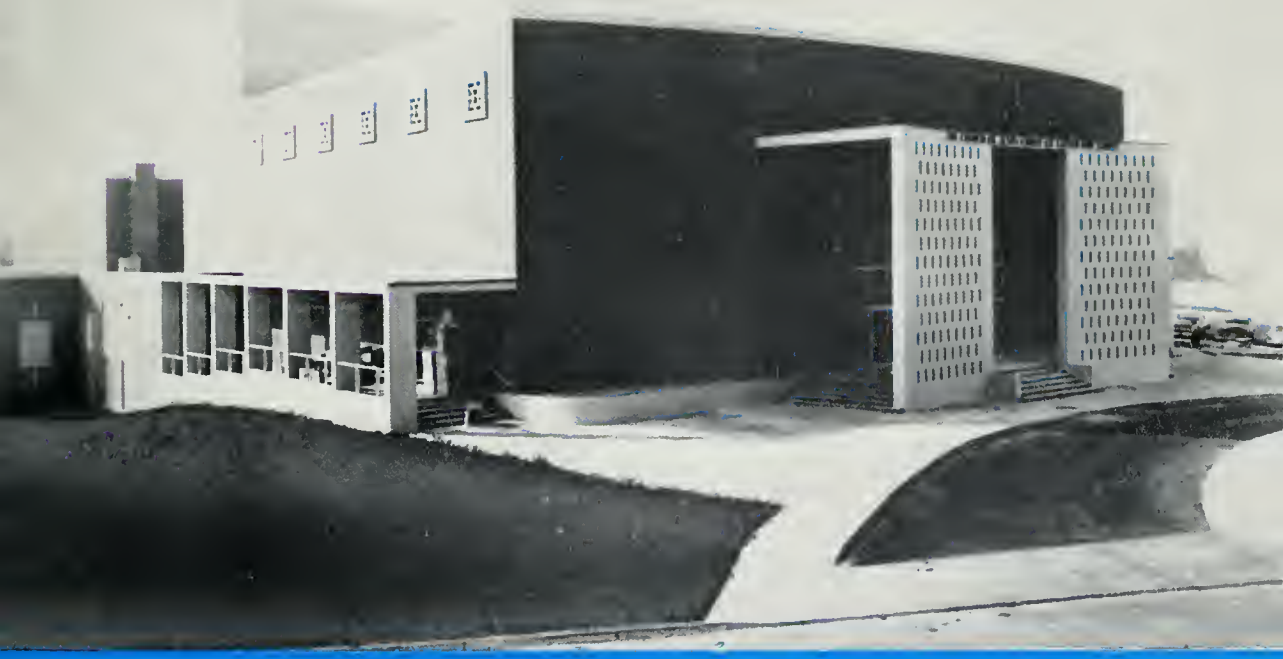


ARCHITECT AND ENGINEER

INTERSTAKE CENTER—CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS . . . Oakland, California

ART DEPT.
FEB 6 1959
SAN FRANCISCO
PUBLIC LIBRARY



BURTON and BURTON, Architects

JANUARY-FEBRUARY 1959

LEADING AMERICAN INDUSTRIES

offer their employees the Payroll Savings Plan for U. S. Savings Bonds

These are but a few of the leading firms which support the Savings Bonds program with more payroll savers than ever before in peacetime.

ART DEPT.
*720.5
Ar24 216
SAN FRANCISCO
PUBLIC LIBRARY 791079
ART DEPARTMENT

Vol. 216 Nos. 1 and 2

ARCHITECT AND ENGINEER

EDWIN H. WILDER
Editor

CONTRIBUTING EDITORS:

Education
SIDNEY W. LITTLE, Dean, College of Fine Arts and Department of Architecture, University of Arizona, Tucson, Arizona.

City Planning
CORWIN R. MOCINE, City Planning Engineer, Oakland, California

Urban Planning and Shopping Centers
FRANK EMERY COX, Sales Research & Business Development Analyst, Berkeley, California

Realty Development
ROY P. DRACHMAN, Subdivider and Realty Developer, Tucson, Arizona

School Planning
DR. J. D. McCONNEL, Stanford School Planning Dept., Palo Alto, California

Residential Planning
JEDD JONES, Architect, Boise, Idaho

General Architecture
ROBERT FIELD, Architect, Los Angeles, California

Engineering
JOHN A. BLUME, Consulting and Structural Engineer, San Francisco, California

Advertising
WILLIAM A. ULLNER, Manager

FRED JONES
Special Advertising

★

COVER PICTURE

TEMPLE HILL
INTERSTAKE CENTER
Oakland, California

Burton and Burton,
Architects.

New $2,000,000 center of the Church of Jesus Christ of Latter Day Saints is outstanding building, designed for area centered activities of religious group. See page 18 for details.

Photo courtesy Pyle Photos.

ARCHITECTS' REPORTS—
Published Daily
Archie MacCorkindale, Manager
Telephone DOuglas 2-8311

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.; and ART INDEX

Contents for

JANUARY-FEBRUARY

EDITORIAL NOTES 2

"SOME ARE MORE EQUAL THAN OTHERS" — Summary of remarks by Benjamin F. Fairless, President, American Iron and Steel Institute, at San Francisco 3

NEWS & COMMENT ON ART 4

"PAINTING AS AN AVOCATION FOR ARCHITECTS AND ENGINEERS" 6
By ELMER GREY, Architect.

"1959 WILL SIGNAL BEGINNING OF NEW ERA OF CONSTRUCTION" . 7
By WILLIAM G. DOOLY, Manager, Public Relations, Associated General Contractors of America.

"SUMMERLAND—OFFSHORE DRILLING PLATFORM" 8
By JOHN E. RINNE, District Supervisor, Civil and Architectural Division, Engineering Department, Standard Oil Company of California.

"PRIMARY FACTORS CONTROLLING COST OF ARCHITECTURAL LETTERING AND DISPLAY COMPOSITION" 10
By LYNE S. METCALFE.

"WESTERN DESIGNERS MAKE USE OF STEEL FRAMING— IN RESIDENTIAL CONSTRUCTION" 14

"TEMPLE HILL INTERSTAKE CENTER"—Church of Jesus Christ of Latter Day Saints, Oakland, California 18
By DAVID W. CUMMINGS. Burton and Burton, Architects.

"RICHELIEU HOTEL REDECORATED" — San Francisco, California . . 24
STANLEY SOLOMON, Designer.

AMERICAN INSTITUTE OF ARCHITECTS—Chapter Activities . . . 26

WITH THE ENGINEERS—News and Notes 28

WHAT'S NEW IN PLASTERING 32
By ROBERT B. SCOTT, Lathing and Plastering Institute of Northern California.

BOOK REVIEWS, Pamphlets and Catalogues 33

ESTIMATOR'S GUIDE, Building and Construction Materials 35

BUILDING TRADES WAGE SCALES, Northern, Central & Southern California 37

CLASSIFIED ADVERTISING 38

ESTIMATOR'S DIRECTORY, Building and Construction Materials . . . 39

CONSTRUCTION CONTRACTS AWARDED and Miscellaneous Data . . 41

IN THE NEWS 44

INDEX TO ADVERTISERS 48

THE OLDEST PROFESSIONAL MONTHLY BUSINESS MAGAZINE OF THE ELEVEN WESTERN STATES

ARCHITECT AND ENGINEER (Established 1905) is published on the 15th of the month by The Architect and Engineer, Inc., 68 Post St., San Francisco 4; Telephone EXbrook 2-7182. President, K. P. Kierulff; Vice-President and Manager, L. B. Penhorwood; Treasurer, E. N. Kierulff. — Los Angeles Office: Wentworth F. Green, 439 So. Western Ave., Telephone DUnkirk 7-8135 — Entered as second class matter, November 2, 1905, at the Post Office in San Francisco, California, under the Act of March 3, 1879. Subscriptions: United States and Pan America, $3.00 a year; $5.00 two years; foreign countries $5.00 a year; single copy 50c.

. EDITORIAL NOTES .

Publishers of ARCHITECT & ENGINEER magazine are combining the regular January and February, 1959 issues of the magazine in this one issue, and henceforth will publish ARCHITECT & ENGINEER magazine regularly each month dated for the following month, i.e. the latter part of February the March issue of ARCHITECT & ENGINEER magazine will be published and mailed to all subscribers including Architects, Engineers, Contractors, School Officials, Planning Commission Members, and others in the light construction industry concerned with news, articles and photographs dealing with planning, design, and construction.

We trust this technical change in publication procedure this month will be of no inconvenience to you. It will greatly assist us in presenting more current news, timely features, photographs, and a better magazine in the future.

The Management,
ARCHITECT & ENGINEER

RESPONSIBILITY FOR EDUCATION

The great responsibility for education, in its general broad terms, is a local and not a national matter. Major federal contributions toward public education cannot help but bring with them a heavy measure of control of curricula, standards and administration.

Business men, including semi-professional business, because of their heavy stake in education as employers of the trained people turned out by the educational system, particularly in the fields of construction skills, scientific, educational, and professional; and as just plain citizens, parents, and taxpayers, lose much when the federal government moves into the education picture.

"Home rule" should not be given up. State and community administration has given the nation the finest school system in the world. Local response to the need for more school facilities has been magnificent. Last year Americans spent $20-billion on education, not including industry training programs.

Education, under local responsibility, has increased total classrooms in the United States from 700,000 to 1,200,000 in the past 11 years; 25 per cent of all classrooms now in use were built in the past five years, and more than 40 per cent were built in the last ten years; the average salary of teachers increased from $3,010 to $4,650 in the past seven years, and the number of teachers increased 37 per cent.

This is a pretty good record for our present educational system, and one that no government controlled system could equal.

* * *

LOOKS PRETTY GOOD

The business recovery is young and vigorous, and its momentum bids fair to carry through most of 1959. Its pace, however, could be slowed by any of several doubtful areas.

Rising personal income and bright prospects for consumer demand can stimulate housing and durables—autos, appliances and home furnishings—but whether the consumer will part with his money as readily as he did in boom year 1955, for example, remains to be seen.

One of the big question marks is the labor picture. Union demands traditionally stiffen as recovery follows recession. Many astute observers now take a midsummer steel strike for granted. But strike or no, the wage-cost-price pressures will be felt along the entire line.

Meanwhile, business will continue to replenish inventory, and federal, state and local government spending is expected to resist economy moves.

KATE P. KIERLUFF, President of The ARCHITECT and ENGINEER, Inc., publishers of Architect & Engineer magazine and Architects Daily Report Service, died at her home in San Francisco, California, on December 27, 1958, following a lingering illness.

Mrs. Kierluff, wife of the late W. J. L. Kierluff who passed away in 1937, succeded her husband as President of the publishing firm, and has served as head of the Corporation for the past twenty-two years, being assisted in the conduct of the business by an able staff. She is survived by an only son, Edgar N. Kierluff, who is also associated with the business.

"Some Are More Equal Than Others"

The United States is facing a dangerous drift toward mediocrity because "we are drifting away from the idea of properly rewarding that individual who does the best job," Benjamin F. Fairless declared at the November 7th San Francisco Regional Technical Meeting of American Iron and Steel Institute. Punitive personal income taxes and the destructive envy of those who do not excel in any endeavor combine to deprive people of high accomplishment of their just rewards, according to the speaker.

Fairless, the Institute's president, said that to win the race against communism "we must encourage better-than-average performances by everyone.

"Our race with Russia will not be won by a lot of average students, average scientists or average production workers. We will, however, stay in front as we stimulate top quality, high performance and hard work and provide solid encouragement for everyone to do his very best," Mr. Fairless said.

He told the meeting that conditions in this country are now changed to the point that excellence is penalized, distinguished achievement is frowned on and our most talented individuals are frustrated by shabby rewards.

"In my opinion, one of the most powerful guarantees of quality performance is an incentive," Fairless asserted. He said the progressive personal income tax rates, which generate only about seven per cent of total Federal income, constitute one method by which people of superior ability are deprived of their just reward. The tax "has worked as one of the devilish ways we degrade high accomplishment," the speaker said.

Fairless explained that incentives to greater performance should not be limited to scientists or managers or professors. "The need for quality extends through the entire catalogue of human activity. For one example, we need engineers, but we need also technical people prepared for tougher problems and unskilled people willing to work hard to learn new skills. A couple of years ago, the Department of Labor estimated that America would need an increase of about 45 per cent in the number of highly-trained professional and technical workers by 1965.

"Men take chances and work to the limit of their ability when the incentive is worthy of the risk or effort," Fairless said. "In my experience, and among the men who helped to make this nation grow, it was never enough just to do the job assigned, and the pallid mark of 'adequate performance' was an insult."

Fairless told the national meeting, "I hope that our nation will halt the trend toward acceptance of the mediocre. I believe we can do it." He said that offering greater incentives and opportunities is the best way to obtain results.

As an example, Mr. Fairless cited the high accomplishments of the Western steel industry. He said that steel capacity in the West has risen 56 per cent, and steel production 62 per cent, during the past decade. He pointed to the bright prospects for the State of California, with a population growing twice as fast as that of any other state and with attendant gains in income, employment, manufacturing and construction.

Fairless declared that one of the major reasons for the progress and prospects of the West must be "that you are doing a better job, offering greater incentives and greater opportunities. And it is one of the sterling characteristics of our free enterprise system that, when you do those things, you go out in front."

EDITOR'S NOTE: *Summary of Remarks by Benjamin F. Fairless, President American Iron and Steel Institute, at recent meeting of the Institute in San Francisco.*

THE NEW AGE OF ARCHITECTURE FILM RELEASED TO ARCHITECTS

The next two decades should bring great changes in the physical appearance of the United States. In fact it should see the creation of another "great period of design", such as was handed down by the Renaissance, Roman and Greek periods of architecture.

This prophecy is made in the new film "The New Age of Architecture," by Architectural Forum, recently released throughout the country by The American Institute of Architects, with dialog including remarks by leading architects, builders and planners.

In a foreword to the film, economist Miles Colean says the next ten years should see construction outlays for new construction in the U.S. of $500 billion, an amount equal in value to all our existing structures, just to take care of the expected tremendous growth in population.

Colean predicts that more than a third of this total —or close to $200 billion—will go into new housing, another $41 billion for schools, $8.5 billion for churches and $85 billion for commercial buildings, of which $45 billion will be devoted to new factories.

Frank Lloyd Wright, dean among architects, one of the commentators, said that if our new homes are of better design—"a work of art"—such beauty of environment will do much to curb our "teenage trouble." Others agreed that good school design can lead our younger people into an appreciation of better architecture.

One construction coordinator emphasized that in rebuilding our business districts and clearing slums, we restore business values.

Other commentators pictured new uses for modern

(See page 30)

NEWS and COMMENT ON ART

RARE RENAISSANCE JEWELS AT deYOUNG MUSEUM

A selection of 100 rare jewels of the Renaissance period from the private collection of Martin J. Desmoni, a resident of Bronxville, New York, and a lawyer by profession, is currently being shown at the M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco.

The display well illustrates the love of luxury and splendor in personal adornment which characterized Renaissance Europe. Not only are rare and costly materials used—diamonds, rubies, emeralds, pearls and richly worked and enameled gold—but even more remarkable is the imaginative way in which these materials have been combined and skillfully manipulated by the goldsmith.

The collection represents the work of Italian, German, French, Spanish, Dutch and English goldsmiths and besides many magnificent pendants, includes necklaces, cameos, medals, amulets and rings as well as a group of three charming pomanders and several ornamental vases and cups of agate and rock crystal.

Perhaps the finest piece in the collection is an arm band, attributed to Benvenuto Cellini, consisting of elaborately scrolled cartouche-shaped links alternately set with diamonds and pearls.

CALIFORNIA PAINTERS ANNUAL AT OAKLAND ART MUSEUM

Award winners in the California Painters Exhibition, currently on view at the Oakland Art Museum, 10th and Fallon, are announced by Curator Paul Mills.

Joseph Smith of Oakland received the top Guest-of-honor award for his abstract oil, "Herculeum." As recipient he will be honored with a one-man exhibition at the museum later this year.

Honorable mentions were awarded to three San Francisco artists, Robert Bechtle for his oil, "From Venice"; Nell Sinton for her oil, "Spain 2," and Glo Kirby for her casein "Prides Crossing." Also receiving honorable mention was "Memo VI," a collage by William Dole of Santa Barbara.

These awards and the fifty-five paintings included in the exhibition were selected by juror Max Sullivan, Director of the Portland Art Museum. The selection was made from entries submitted by more than 400 artists from all over California.

Purchase Awards

Purcahsed from the exhibition with a total of $1,000.00 provided by the Woman's Board were the works by Smith, Sinton, and Bechtle as well as "Stidio," an oil by Joseph Brooks of San Francisco, and "Hillside Port Costa," a watercolor by Harold Gretzner of Oakland.

According to Curator Mills, this is the museum's most important competitive painting exhibition of the year and includes paintings in all media. Although the exhibition is mostly abstract, work in all styles is represented.

African Sculpture

Also in loan at the museum is a loan exhibition of African sculpture from the Segy Gallery in New York. Included are some thirty pieces ranging from ancestor cult and secret society initiation masks to ceremonial figures, cups, horns and bells. Included also are several ivory, wood and metal bracelets and small gold weights cast in the lost wax process.

Guided Tours

Clubs, organizations and classes wishing a guided tour through the exhibitions may make arrangements by calling Mrs. Doris Morrison of the Museum staff. Tours may be arranged during regular museum hours, 10 a.m. to 5 p.m., daily, or during the evening.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, under the direction of Dr. Grace L. McCann Morley, will feature the following exhibitions and events during January.

EXHIBITIONS. The Art of Animation; A Retrospective Exhibition by Walt Disney; Masterworks in the Permanent Collection; and Paintings by Andre Masson.

EVENTS. A special showing of Disney films; Lectures on Art; Educational activities include classes for the adult and child; conducted tours of the Museum.

The Museum is open daily.

CALIFORNIA PALACE OF THE LEGION OF HONOR

The California Palace of the Legion of Honor, Lincoln Park, San Francisco, under the direction of Thomas Carr Howe, Jr., announced the following exhibitions and special activities for January:

Exhibitions: Bernard Ralph Maybeck (1862-1957). An exhibition of the work of the noted Bay Area architect through photographs by Roy Flamm; Paintings, by Wallace H. Smith; 38th Annual Exhibition of the California Water Color Society; Masterpieces of Korean Art, and Recent Paintings by Harry Kroll.

The Achenbach Foundation features an exhibition

of Gifts and Acquisitions of the years 1957 and 1958; and Prints by Jakob Steinhardt.

SPECIAL EVENTS. Organ recital each Saturday and Sunday afternoon at 3 p.m. featuring Mr. Richard Purvis and Ludwig Altman. Educational activities include classes for children and juniors in art on Saturdays.

The Museum is open daily.

PAINTINGS BY ANDRE MASSON NOW AT SAN FRANCISCO MUSEUM OF ART

A special exhibition of twenty paintings and four lithographs of the work of Andre Masson, representing a span of more than thirty years work, is being shown at the San Francisco Museum of Art, War Memorial Building, Civic Center, San Francisco.

Andre Masson was associated with the surrealist movement in its early days, and has continued to work

---

M. H. DE YOUNG MEMORIAL MUSEUM

Golden Gate Park San Francisco

MADONNA AND CHILD WITH FOUR ANGELS

GIOVANNI DAL PONTE
Italian, School of Florence
1385-1437?

[The Samuel H. Kress Collection]

in a direction parallel with one of the main streams of surrealism.

The selection of Masson works now at the Museum originated at the Edgardo Acosta Gallery in Beverly Hills, and has been shown at the Pasadena Museum. Following its San Francisco showing it will go to the Santa Barbara Museum of Art.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, is presenting the following exhibits and events for this month—January.

EXHIBITS. Renaissance Jewels, from the collection of Martin J. Desmoni of New York; Society of Western Artists, 19th Annual Exhibition of Oils, Watercolors, Pastels, Graphic Art and Sculpture; Into the Child World, an exhibit of art works by San Francisco Public and Private School Children from pre-school age to 12; Color Woodcuts, by Ando Hiroshige 1797-1858, lent by Mr. and Mrs. Edwin Grabhorn; and Persian and Indian Miniatures, from the collection of K. Demirdjian, lent by A. Dermirdjian.

EVENTS. Classes in Art Enjoyment for adults and children; seminars in the history of art, and guided tours.

The Museum is open daily.

UNIVERSITY OF ARIZONA STARTS ART COLLECTION

A gift of thirty architectural presentation drawings to the University of Arizona constitutes the beginning of a new art collection.

The drawings are color renderings completed for clients by architects of the firm of Annand, Boone and Lee, Portland, Oregon. They are currently being used in advanced design classes in the new department of architecture as study material for students.

The drawings were obtained by Sidney W. Little, Dean of the College of Fine Arts, who was a design consultant for the Portland firm for several years before coming to the University of Arizona at Tucson. They are excellent examples of the various techniques of architectural rendering in dramatic finished form for presentation to clients.

Dean Little hopes that this gift will form the basis for a permanent, growing collection of architectural drawings and models to be added to by the works of student architects and other outside gifts. The collection is to be used both for study and for the enjoyment of the public as an art form.

CALIFORNIA MOSAIC MURALIST ITALIAN GOVERNMENT GUEST

Joseph L. Young, internationally famed mosaic muralist of Los Angeles and Southern California, has been extended a joint invitation by the National Association of Glass Manufacturers and the Foreign Ministry of Trade of the Italian government to deliver a series of lectures in Venice, Ravenna, Florence and Rome during February.

Dr. Vittorio Sanguineti, Italian Trade Commissioner who conferred the unusual honor, noted Mr. Young's outstanding achievements in creating mosaic murals, as an author and lecturer, and his recent election as Lifetime Fellow to the International Institute of Arts and Letters.

Young first reached national recognition in the United States with the completion of his now famous cantilevered mosaic mural for the City of Los Angeles Police Facilities Building in 1955. Currently he is completing several major commissions in his studios in Los Angeles.

PAINTING AS AN AVOCATION

For ARCHITECTS and ENGINEERS

By ELMER GREY

Architect of the Huntington Art Gallery, Pasadena Community Playhouse, Beverly Hills Hotel

Painting as an avocation for architects and engineers is certainly worth while, or we would not have such convincing testimony to that effect. Perhaps the most colorful disciple of the activity was the late F. Hopkinson Smith, the engineer who planned and built the foundation for the Statue of Liberty in New York harbor. He has written numerous books on his experiences while engaged in it, conspicuous among which are "A White Umbrella in Mexico" and "A Day at La Guerras". He worked both in oil and watercolor and his reputation as a painter eclipsed even his profession as an engineer. Many of his vacations were spent in Venice and when working there in watercolor employed the unusual method of using a blue paper to answer for the color of the sky and water.

At an exhibition in New York some of his cronies decided to have some fun in connection with that trick of his. They secured an immense sheet of blue paper, drew a line through the center to represent the horizon and a few upright strokes in the foreground for gondola poles. They had this framed and below it in large letters printed the lines:

"You bet your bottom dollar,
We're on to your Venice caper.
A little work, a little paint,
And all the rest empty paper!"

During the last World War, the practice of archi-

tecture being at a stand still, I was teaching mechanical drawing to sailors and marines at the U. S. Naval Air Station at Jacksonville, Fla. But the work was not especially congenial, and as a pastime I undertook the painting of a mural frieze for the Main Assembly Room of the Senior Officer's Quarters there, doing it out of regular working hours.

It was 35 feet long and depicted in five episodes the history and development of Florida. Reproductions of the frieze were given a two page spread in the "Architect & Engineer" when the work was completed.

In doing these murals, in addition to the pleasure of adding to the attractiveness of an important room there was joy, day after day, of doing creative work. There is something about painting that takes the mind completely away from the humdrum things of life. When you have found the right color and tone for a given spot, you know because you are thrilled by it and want to continue elsewhere to repeat the process. It is as though you were not originating the work at all, but a greater Artist within you was directing it and giving you warm acclaim each time you responded correctly.

It is seldom you would be in want of a subject. One painting that I sold for $50 had as a subject a chicken coop, a dog kennel, and the red and white underclothing of Mexicans hanging out on the line to dry. It was the way these objects happened to be arranged that made a good composition for a painting.

1959 WILL SIGNAL BEGINNING OF NEW ERA OF CONSTRUCTION AGC OFFICIAL PREDICTS

BY WILLIAM G. DOOLY, Mgr.
Public Relations, AGCA

Today, judging from brightening reports from various sectors of the national economy, a substantial proportion of business groups are viewing the prospects for the new year with far more confidence than was evidenced at this symposium a year ago*. These attitudes have a considerable impact on certain categories of construction.

For our part, we feel pleased that the dollar volume of new construction appears to be reaching the $49-billion total predicted for last year by The Associated General Contractors of America a year ago, and that we can be more optimistic about the outlook for 1959 today.

Briefly, it appears that new construction stands a fair chance of reaching $52-billion in 1959, with the usual qualifications that construction costs will not rise inordinately, materials will be plentiful, no prolonged work stoppages will occur in basic industries, and international complications will not seriously affect activity in the United States.

NEW ERA CONSTRUCTION GROWTH

The 6 per cent increase in activity next year will be the largest jump in four years, and, if past patterns and long-range forecasts by economists hold true, should signalize the start of a new era of construction growth, along with a generally prosperous economy.

The extent to which the 1959 dollar volume will exceed or fall short of the $52 billion goal will hinge much on two volatile categories of construction, one of which is influenced considerably by credit policies while the other shows extreme sensitivity to general economic conditions and buying moods of the public. These are residential and industrial construction, respectively.

Private construction in 1959 is expected to increase by 3 to 4 per cent, for a total just under $35 billion, with moderate rises in residential and religious building. The major part of next year's advance should take place in public construction, increasing some 16 per cent to $17.4 billion, paced by a significant advance in the expanded highway program.

PRIVATE CONSTRUCTION

While some more optimistic forecasts have been made concerning residential activity, a more conservative figure of $19 billion, representing a 7 per cent increase, seems probable, based an presumptions of tightening credit and mortgage conditions in the latter part of the year.

Much of this projected increase in expenditures next year will result from the high rate of housing starts late this year, with a slight rise in the number of starts in 1959 expected. How much this rate might be affected by credit conditions on the one hand, and by the possibility of Congressional action on the other, is a matter of conjecture.

Private nonresidential building construction is expected to maintain approximately its current level of $8.7 billion, with the groundwork being laid for an advance in 1960.

While a drop in business construction was anticipated this year in line with the slump in plant and equipment expenditures, that decline was underestimated in practically all construction forecasts a year ago. The fall in capital investment resulted in a 30 per cent decline in industrial building to about $2.5 billion, while most other business categories held near their current levels.

A further 10 per cent drop is expected in industrial construction next year to about $2.2 billion, reflecting the decline in new projects getting underway in 1958,

---

*Text of statement at Business Outlook Conference for the Press, sponsored by the Chamber of Commerce of the United States in Washington, D.C. in December.

but an increase in the planning of new projects is anticipated which should boost this category starting late in 1959. While American business currently indicates only a slight increase over the low 1958 level of capital expenditures in the coming year, it is expected that these plans will be revised upward with improving economic conditions.

The other two large business categories, commercial and public utilities, should come close to their 1958 levels of $3.6 billion and $5.5 billion, respectively.

A slight drop in farm construction is expected, from $1.6 billion to $1.5 billion.

Church and other religious construction may advance 15 per cent, reaching the $1-billion mark for the first time, while other minor private nonresidential categories are expected to remain close to their current record levels.

PUBLIC CONSTRUCTION

State and local public works will continue to increase their dominance in public construction, paced by a 15 per cent rise in highway construction and moderate increases in schools and sewer and water facilities.

The expanded highway program, which began accelerating this past summer, may push road construction to $6.2-billion this year, and increase thereafter for three or four years.

Public education facilities, which rose only 2 per cent in 1958, may pass the $3-billion mark with a 6 per cent increase, with the possibility that upwards of 75,000 public school classrooms will be provided in the 1958-59 school year.

The missile base program may boost military construction by more than 20 per cent to $1.5-billion.

Other moderate increases are expected in sewer and water facilties, reaching $1.5-billion; conservation and development, $1.1-billion, and public housing, $1-billion.

In conclusion, indications from nearly all qualified sources are that construction is headed for a new record in 1959, both dollar-wise and in the physical amount put in place. Contract awards have been increasing, and most business surveys show growing optimism.

As in the recessions of 1949 and 1954, construction has helped lead the way to recovery. Its brightening prospects would seem to augur well for 1959, since there never has been a period of sustained prosperity without a high volume of construction.

SUMMERLAND

OFFSHORE DRILLING

PLATFORM IS DESCRIBED

John E. Rinne, District Supervisor, Civil and Architectural Division-Engineering Department, Standard Oil Company of California, recently described and discussed the "Summerland Offshore Drilling Platform" at a meeting of the Southern California engineers, sponsored by the Structural Engineers Association of Southern California.

In 1953 there was controversy as to the ownership of the offshore land within the three-mile limit. A ruling in favor of the State of California was made in a court case in 1954. In 1955 California enacted the Cunningham-Shell Act, establishing procedures for State leasing of parcels of submerged lands for oil exploration and development. Under this Act leases were awarded on the basis of high bonus bid, with royalties on production to be paid the State additionally on a fixed percentage of the value of the production. The first lease was awarded jointly to Standard Oil Company of California and Humble Oil and Refining Company in January 1957. The bonus bid on the 5,500-acre Summerland parcel was $7,250,000. The California coastline runs almost due east and west in this area and the lease is a few miles east of Santa Barbara opposite the town of Summerland.

Preliminary Work

After acquiring the lease, Standard of California as operator for the two firms, started preliminary explorations of the site using the Pacific Driller, which is a DeLong type barge platform. Concurrently, economic studies of platform types were made by the engineering department, using soil data obtained from its driller. The site finally selected is two miles offshore in about 100 feet of water, where there is 21-24 feet of silt sand and gravel overburden on firm claystone or weathered shale with approximately a two per cent slope along the bottom.

The basic design criteria consisted of five items:

1. Complete facilities and storage capacities for self-contained operations.

2. Ability to drill up to 25 wells from one platform, which is five more than the minimum required by the State.

3. Provide for drilling two wells simultaneously.

This being a matter of economies, although the first wells were drilled one at a time.

4. Provide clearance and strength to resist a 46-foot high wave. Oceanographers established that a 46-foot wave has a return period of about 140 years. The forces due to waves were obtained from experimental data taken in the Gulf of Mexico.

5. Earthquake forces of 0.1 g were used, however, maximum wave design practically always governed.

Basic Components of the Structure

The tower is 75-feet square, center to center of the four 36-inch corner columns. Caissons at base of columns are 27-feet in diameter and 40-feet high. As the tower was floated to the site, its height from bottom of caisson to top of columns was 162 feet. Most of the caisson was an air-tight buoyancy chamber during the tow. The deck is about 110-feet square, supported by eight plate girders 9½ feet deep which span 45 feet between truss chords. The six inside girders are made up in pairs and, except for the middle well area, are closed in top and bottom to provide needed tankage. During the drilling period the main deck will be busy with operations, buildings, blowout preventers, mud circulating and processing equipment, cementing unit, cuttings, handling facilities, materials (mud and cement), storage and production facilities. On completion of drilling, practically all equipment above the main deck level will be removed.

Twenty-two feet above the main deck is the derrick floor. At or near this level are the pipe rack for drill pipe and casing, the 40-foot square heliport for air access of personnel, materials crane, electric bay of switch gear and starters for the electric motors that power the drilling equipment.

The derrick is 45-feet square at base, 35-feet square at crown block level, 140 feet above the derrick floor. The overall height of the platform bottom caissons to crown block is 339 feet. The wells were spaced at 6½ o.c. in five rows of five.

The decks of the platform are watertight and drain to gutters. Precautions have been taken to avoid contamination of the ocean. Cuttings are cleaned before being discharged well below the water level.

Power for all operations is furnished by a power cable from shore with emergency diesel standby operators.

Design and Construction Schedule

During the first six months of 1957 designs progressed to permit ordering steel. In October the fabrication contract for the platform was awarded to National Steel and Shipbuilding Corp. of San Diego. Other components of the complete structure came from widespread points. Pipe, plate girders and top chords were fabricated by Kaiser Steel at Napa and shipped by rail to San Diego for assembly. The derrick came from Tulsa, Okla. The buildings were fabricated in Long Beach. Production facilities were preassembled in Bakersfield.

Late in 1957 installation bids were solicited and a contract awarded to the Pacific Division of J. Ray McDermott, experienced platform contractors in the Gulf of Mexico.

During fabrication of the platform, a mock-up of the derrick and drilling equipment was made at Long Beach.

The derrick barge and cargo barge, after loading on the deck section and chords at San Diego, proceeded to Long Beach to load out the components stored there. The platform left San Diego June 13, pulled by two 2400 HP Red Stack tugs, using nylon tow lines, independently fastened to the lowest horizontal bracing of the tower. The platform arrived June 15.

Lowering Operations

The availability of a 250-ton derrick barge permitted a hook load to be applied to the derrick, thereby providing the necessary stability required during lowering operations. The tower was lowered the night of June 17 in seas that were running swells up to six feet high with periods of eight to 10 seconds. The tower caissons were kept under air pressure during the lowering to offset the external hydrostatic pressure. The tower landed on the bottom after about 1½ hours, the caissons being completely flooded and the tower sunk into soft top silt about five feet. This left about an additional 15 feet to go to reach the required bearing strata.

The truss chords were installed to provide more weight and a working platform from which to operate the jetting and air lift systems used for excavating and lowering tower to its final position.

Concrete and sand ballast was placed by tremie to the foundation. First depositing concrete between the bearing strata and the cutting edge of the caisson, then sand up to a point just below where the lowest lateral bracing system attaches to the caisson a layer of concrete was placed adjacent to the lateral bracing struts and then the balance of the caisson was filled with sand. Placing of concrete then continued up through the 36-foot columns which added to the weight but primarily stiffened joints.

Following concreting, the installation of deck sections and equipment proceeded according to plan. All of this was done in six weeks and drilling started September 20.

As of now, the first well has been completed, oil has been found, the extent of which remains to be established. Optimistically, it can be a significant addition to California's diminishing oil reserves. A few more wells will be needed to complete the evaluation of the Summerland field.

PRIMARY FACTORS CONTROLLING COST

ARCHITECTURAL LETTERING

AND DISPLAY COMPOSITION

By LYNE S. METCALFE

One of the primary factors in controlling the cost of architectural **lettering** and display composition art lies in the TIME spent to do it.

This is particularly true in any form of planning production, where costs form such a large percentage of budgets.

Another factor is the achievement of **professional** quality in lettering art and printing shop results, which today is so necessary if the plant involved is to be effective, and able to do the job set for it to do. And, as the cost of skilled hand lettering and type composition rises steadily, and the demand for professional work grows, an increasing number of architectural organizations have turned to mechanical lettering art techniques, among them such as, Lincoln Engineering, Newark College of Engineering, and others.

An ever-widening range of type sizes and letter styles are needed in planning styles, and combinations of styles—varieties and needs. Consider a few of the problems which so many of us must solve in original display lettering work.

(a) For producing composition for photographic reproduction.
(b) Silk screen positives
(c) direct images on paper and metal plates.
(d) full color composition for charts and presentation.
(e) Slides
(f) Mechanical drawing.
(g) Film titles.
(h) Testimonials.

Furthermore, in order to produce **creative** lettering effects, such, for instance as circles, curves, perspectives, over-laps, shadow and Ben Day effects, for decals, badges and many other needs. Also, to letter for audio-visual slides or film, and in color; to letter names on certificates, diplomas, and to letter cartographic information or data on all types of maps, plans, etc., and to always get "copy" that will exactly fit a given space.

It is also true that a very large percentage of lettering art must be done by personnel with little or no previous professional experience in lettering or design.

Said F. W. Chamberlin of the Varigraph Co., responsible for important developments in the field of mechanical lettering art, to the writer:

"Untrained, unprofessional lettering tends to make the work amateurish and crude. That's why such interesting advances have been made in the direction of MECHANICAL LETTERING, being so widely used at the present time.

"Finished lettering art thus becomes a necessary part of almost any graphic enterprise or job. Perhaps the best example of this progress is revealed in a highly developed mechanical lettering system called the Varigraph.

"It produces original lettering with the flexibility of printing shop point size control. For providing camera-ready copy in more than seventy differing type faces, and in free-hand lettering styles.

"The procedure is simple. The operator merely "dials" the height and/or width of the lettering wanted in hundreds of sizes from 8 to 96 point including condensed and extended.

"Well-formed letters are then made directly on the work surface, by moving the STYLUS, in the templet letter grooves."

Well-formed letters are made, it was explained, on such surfaces as:

1 Paper
2 Paper and off-set duplicating masters
3 Tracing paper
4 Show card stock
5 Clear and frosted acetates
6 Tracing cloth
7 Painted masonite

Also, **mechanical** lettering in COLOR is now possible, through the availability and use of 28 different watercolor inks for poster work, and for colored slide preparation.

We all recognize the need for variety of special effect, especially with the use of a wide variety of faces such as outlined letters, shadow lettering, lettering in perspective, Ben Day treatment, etc.

With the present highly developed mechanical lettering, the usual photographic plate step is eliminated in the case of lettering on an offset paper plate, or silk screen positive.

Developments in the graphic arts over the years, including advances in printing processes and printing equipment, have brought about the development of low-cost professional quality finished lettering art. Its development has progressed along wide advances in duplicating, commercial photography, etc. Because special effects are needed more and more in every day

reproduction of graphic material.

For instance:

It has been recognized that an effective lettering system must take into consideration use by the left-handed artist as well as the normal right-handed artist.

This also has now been achieved.

Take the function of "filling in" of lettering produced by the mechanical system. This job doesn't have to be done by hand. It is done rapidly and professionally by means of a type templat which makes outlining and filling in automatic and speedy, thus doing away with cumbersome brush or pen fill in.

The templet referred to has double **engraved** grooves, the outer groove engraved deeply for purposes of outlining the letter, using a fine line pen and narrow stylus. The inside groove is engraved shallow for filling in letters with a broad pen and wide stylus. (It was also explained that ruled lines for business forms may be made with this instrument), along the straight edge with the pen in writing position, and fine variations in lines are also possible.

What has been sought by the designers of this method, is a system which will bring profesional work within reach of the organization or shop without personnel skilled in this work, and to make speedy lettering over a wide range of styles possible at a lower cost. And to cut down the ever-increasing outlays on print shop type composition.

EAST BAY CHAPTER, AMERICAN INSTITUTE OF ARCHITECTS, ELECTS NEW OFFICERS

George T. Kern, partner in the firm of Fingado & Kern, Architects, 2910 Telegraph Avenue, Oakland, was elected President of the East Bay Chapter, American Institute of Architects, at the Chapter's recent annual meeting.

Other officers for 1959 are W. Roland Gibbs, Oakland, Vice-President; Frank Lockwood, Berkeley, Secretary; Arthur Iwata, Berkeley, Treasurer; and Robert J. Gianelli, Vallejo, Director. Directors continuing to serve for the ensuing year are Hachiro Yuasa, Oakland, retiring president; Robert Oyarzo, Oakland; and Gerald McCue of Berkeley.

NEW OFFICERS, East Bay Chapter, A.I.A.: R. J. Gianelli and Arthur Iwata (standing, l. to r.); W. Roland Gibbs, George T. Kern, newly elected president, and Francis A. Lockwood (seated).

President Kern was born in Woodland, California. He received both an A.B. and M.A. degree in architecture from the University of California, and is a Registered Architect in the State of California.

The firm of Fingado & Kern, Architects, designs commercial buildings, office buildings, food stores, retail stores, hospitals, medical buildings and municipal buildings. There are examples of their work in Fontana, Crescent City, Chico, San Leandro, Antioch, Concord, Oakland, Berkeley, Hayward, Sacramento, San Francisco and Phoenix, Arizona.

FOURTH ANNUAL A.I.A. AWARDS PROGRAM ANNOUNCED

Architects, builders and homeowners from 10 Southern and Gulf States will vie for honors this Spring in the fourth annual "Homes For Better Living Awards" program, sponsored by The American Institute of Architects.

Any house designed by a registered architect and built since January 1, 1956 is eligible for an award. Entries may be submitted from: North Carolina, South Carolina, Florida, Georgia, Alabama, Mississippi, Tennessee, Louisiana, Arkansas and Texas.

Awards will be made in two major categories: (1) Houses designed specifically for an individual owner and, (2) Houses designed for a merchant builder and sold speculatively. Each of the categories will have three sub-classes: custom houses divided according to floor area and builder houses into price groups. Both categories will be judged separately, and the jury is empowered to award as many first awards and awards of merit as they see fit.

This year the A.I.A will have the cooperation of two national magazines, as well as twelve leading national organizations in the housing industry, including the National Association of Home Builders, the United States Savings & Loan League, and the National Association of Real Estate Boards.

Entries will be judged by a jury of nationally distinguished architects, builders, publishers and consumer representatives meeting in New York. Announcement of awards and presentation ceremonies will be held at the A.I.A. Convention in New Orleans June 22-26, 1959. Award winners will be exhibited at the A.I.A.'s Octagon in Washington and will be published. Deadline for entry notifications will be March 31, and material must be postmarked not later than May 1, 1959.

CHARLES D. DeMARIA ELECTED STRUCTURAL ENGINEERS PRESIDENT FOR NORTHERN CALIFORNIA

Charles D. DeMaria, Structural Engineer with H. J. Brunnier, Structural Engineer, San Francisco, has been elected president of the Structural Engineers Association of Northern California for 1959.

CHARLES D. DeMARIA
President

Born in 1918 in Placer county, California, DeMaria attended Placer Union High School; graduated from Placer Junior College in 1938 with degree of Associate of Arts, majoring in Chemistry; and graduated from the University of California, College of Engineering in 1941 with the degree of Bachelor of Science, majoring in Civil Engineering.

In addition to spending three years during World War II in the U. S. Navy Civil Engineer Corps (Seabees) with the rank of Lieutenant, DeMaria has had considerable experience in structural design of a wide variety of buildings, including hangars, warehouses, industrial buildings, office buildings, schools, wharves, bridges; consultation on the design of multi-story buildings in Canada and South America; assistance in the writing of a building code for the Republic of Ecuador, and design of the main arena for the 1960 Winter Olympic Games at Squaw Valley, California.

He has been a Registered Civil Engineer in the State of California since 1946, and authorized to use the title "Structural Engineer" since 1949.

DeMaria has served as a director of the Structural Engineers Association of Northern California and the Structural Engineers Association of California. Member Chi Epsilon, Tau Beta Pi and Sigma XI honorary fraternities. He resides with his family in Atherton, California.

CALIFORNIA CIVIL ENGINEERS AND LAND SURVEYORS MEETING

The seventh annual convention of the California Council of Civil Engineers and Land Surveyors, meeting in Los Angeles this month received an advance report on the most comprehensive study of surveying and mapping ever undertaken in this country.

The report was delivered by B. Austin Barry, chairman of the American Society of Civil Engineers task committee which spent several years in compiling the definite study, according to George Bestor of Carmel, president of the CC of C.

Panels on electronic computing and professional fees; discussions of geology in subdivision development and of systems of engineering; significant aspects of the national highways expansion, and the mechanic's lien law were other features of the three-day conferences. Nontechnical activities included a fashion show, cocktail party, dancing and entertainment.

TWO NATIONAL ENGINEERING SOCIETIES WILL CONSOLIDATE

Members of the American Society of Heating and Air-Conditioning Engineers and the American Society of Refrigerating Engineers, have voted approval of a plan to merge the two societies to be known as the American Society of Heating, Refrigerating and Air-Conditioning Engineers.

The announcement was made by the presidents of each society, E. R. Queer, University Park, Pa., of the ASHAE; and Cecil Boling, West Hartford, Conn., of the ASRE.

FORM PARTNERSHIP

William M. Gillis and Nicholas Forell have formed a partnership to be known as Gillis & Forell. They will maintain offices at 680 Beach Street, San Francisco, for the general practice of architecture. Mr. Forell is a structural engineer.

ENGINEER EXAMINATION DATES ANNOUNCED: Engineer-in-Training, April 25, 1959, with final filing date February 1, 1959. And November 14, 1959, final filing date September 1, 1959. Professional (Civil), August 15, 1959, with final filing date April 1, 1959.

LECTURE SERIES FOR ENGINEERS BY UNIVERSITY OF CALIFORNIA

A lecture series for engineers on "Mechanical Behavior of Materials at Elevated Temperatures," will be offered early in February by the University of California Extension in three California locations: The series of sixteen weekly lectures by nationally known experts will begin February 2 in Berkeley, February 3 in Los Angeles, and February 4 in San Diego.

The program is especially organized for design engineers, material engineers, metallurgists and ceramists, with the object to bring to engineers the latest information on methods of improving the efficiency of structures and machines which are to be operated at high temperatures.

Among the speakers scheduled are: F. R. Shanley, professor of engineering, University of California, Los Angeles; John J. Gilman, research metallurgist, General Electric Research Laboratory; Gunther Schoeck, research physicist, Westinghouse Research Laboratories; Jack Washburn, associate professor of metallurgy, University of California, Berkeley; J. D. Lubahn, consulting engineer, Knolls Atomic Power Laboratory; S. Stanford Mason, chief of the Materials and Structures Division, Lewis Research Center, National Aero-

nautics and Space Administration; B. J. Lazan, head of the Department of Aeronautical Engineering at the University of Minnesota.

Lecture topics are "The Nature of Dislocations"; "Behavior of Dislocations"; "Creep as Thermally Activated Rate Processes"; "Theories of Creep"; "Theories of Creep"; "Theories of Fracture"; "Theories of Fatigue"; "Experimental Evaluation of Creep and Stress Rupture"; "Alloying for Creep Resistance"; "Mechanical Behavior of Ceramic Materials"; "High Temperature Tensile Properties and Creep Under Combined Stresses"; "Thermal Stresses and Thermal Shock"; "Creep Under Non-Steady Temperatures and Stresses"; "High Temperature Fatigue"; "Summary of Basic Principles and Engineering Applications."

Statewide coordinator of the program is John E. Dorn, professor of metallurgy at the University of California, Berkeley. Harold L. Tallman, assistant head of Physical Sciences Extension, is the Los Angeles coordinator. John C. Bowman, chief of Systems Dynamics Department of Ryan Aeronautical Co., is San Diego coordinator.

STRUCTURAL ENGINEERS ASSOC. SOUTHERN CALIFORNIA

Harry W. Bolin was presented with a plaque as honorary member of the Structural Engineers Association of Southern California at a meeting of the Association January 7, 1959.

Mr. Bolin has held the warm personal regard and high professional respect of the engineering fraternity for many years. Born in Michigan, he received his BS in Civil Engineering at the University of California in 1913 and started his professional career in the office of Henry J. Brunnier in San Francisco where he remained until 1924 except from 1917 to 1919 when he served with the 23rd U. S. Engineers in France.

About 1925 he went to China to take charge of the Shanghai office of J. E. Hayes Engineering Co. On his return he engaged in consulting practice in Northern California from 1926 to 1933. He joined the State Division of Architecture in 1933 and became Principal Structural Engineer and head of the Los Angeles Section of the Schoolhouse Division in 1948. He retired from State service in 1954 and moved with his wife, Alice, to Ventura where he now has his own engineering practice.

Mr. Bolin is a past president of the SEAOSC (1949), past president of SEAOC (1950), and has served as chairman of the Seismology Committee, American Society of Civil Engineers. He is a member of the Earthquake Engineering Research Institute, the American Society of Civil Engineers, the American Concrete Institute and the SEAOSC.

After the plaque presentation, the 1959 officers and directors of the SEAOSC were installed. President-elect Harald Omsted received the gavel from Joe Sheffet, 1958 president. Mr. Omsted, Chief Structural Engineer for the Los Angeles City Board of Education, then performed his first official duty, the introduction of his fellow officers and directors. They are: First Vice-President, Jack N. Sparling, Vice President Quinton Engineers, Ltd.; Second Vice-President, Roy G. Johnston, Partner, Brandow & Johnston, Consulting Structural Engineers; Treasurer, Cydnor M. Biddison, Structural Engineer with Hillman & Nowell; Secretary, Marvin J. Kudroff, Director of Engineering for Daniel, Mann, Johnson & Mendenhall; Directors: Norman B. Green, Consulting Structural Engineer; Irvan F. Mendenhall, Partner, Daniel, Mann, Johnson & Mendenhall; Carl E. Nelson, General Manager, Donald R. Warren Co.; Charles Peterson, Principal Structural Engineer, State Division of Architecture; William F. Ropp, Partner, Ropp & Ropp, Structural Engineers; Joseph Sheffet, Consulting Structural Engineer; Robert M. Wilder, Consulting Structural Engineer.

Recent new members include: Richard A. Arnold, Junior, and Lawrence H. Daniels, Member.

LOS ANGELES CONFERENCE ON DESIGNING

Engineers, architects, builders, and community planners will meet on February 2-3 at the University of California, Los Angeles, for a joint conference on Designing and Indoor Environment.

Specialists will discuss the thermal, atmospheric, acoustical, luminous, aesthetic, structural, and mechanical factors which will assure maximum indoor comfort and efficiency in future homes, office buildings, shopping centers, and airplanes.

The conference, sponsored by the University Engineering Extension, will consider each factor separately as well as in their interrelations in an integrated system.

Speakers will include architects Richard J. Neutra and Robert E. Alexander; Douglas H. K. Lee of the U.S. Army Quartermaster Research and Engineering Command; Burgess H. Jennings, American Society of Heating and Air Conditioning Engineers; Alfred Mayo, Douglas Aircraft Company; and Dr. Vern O. Knudson, UCLA Vice-Chancellor and noted acoustical expert.

CONSTRUCTION SPECIFICATIONS INSTITUTE, SAN FRANCISCO AREA, CHAPTER MEETS

The function of specifications in the control and testing of structural materials was discussed at the January meeting of the Institute, held in San Francisco, with Jack Reuin, construction supervisor serving as moderator of a panel which included George F. Durbin of Abbot A. Hanks, Inc., testing laboratory as a member.

The value of manufacturers' certificates was discussed thoroughly, together with the problem of testing structural materials.

MAKE USE OF STEEL FRAMING

IN RESIDENTIAL CONSTRUCTION

Housewives, are you bored by the house you're living in?

Do you feel cramped by your surroundings?—dinky bedrooms, no play area for children? Are your windows little viewless blobs of glass?

Take heart!

A new type of architecture is here which promises to turn the conventional dwelling into an exciting new home with unlimited possibilities for modern living.

The key to this bold new building concept is a structural steel frame. By loading all the weight of a dwelling onto a steel skeleton, the architect can capitalize on functional, dramatic, and practical space arrangement for the tenant. Steel framing permits interior floor plans undreamed of with conventional wooden studs and joists in most light occupancy structures.

Although this new architectural form—typically American in flavor—has caught on most rapidly in the West, steel-framed homes have proved practical everywhere. Light structural steel framing has particularly captured the imagination of home builders in California where steel producers and structural contractors have worked closely with leading architects to achieve spectacular results in design and fabrication.

Current trends call for leaving the structural steel frame exposed to dramatize its functional beauty. Its clean crisp lines, plus uniformity of shape and size, have an aesthetic appeal all its own. As far as maintenance is concerned, exposed steel is easy to paint, rebuffs rot, and is impervious to termites and all weather extremes.

A major point about steel framing is that it is not limited to luxury class homes, but can compete with

NON-BEARING glass curtain walls and steel framed sliding glass doors permit full open view from living room. Home utilizes rigid steel framing to cover 3,600 sq. ft. of living area. Neither interior nor exterior walls are load bearing, hence are covered with light materials such as marine plywood paneling, gloss and even cork.

Dr. Donovan Cooke

RESIDENCE

Belvedere, California

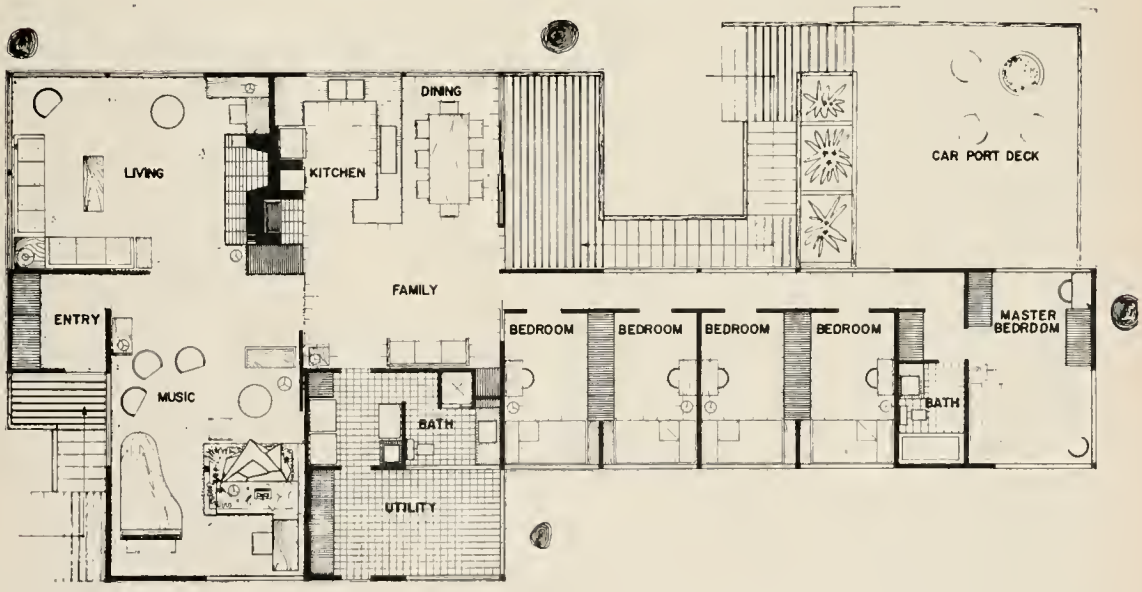
Raphael Soriano, Architect

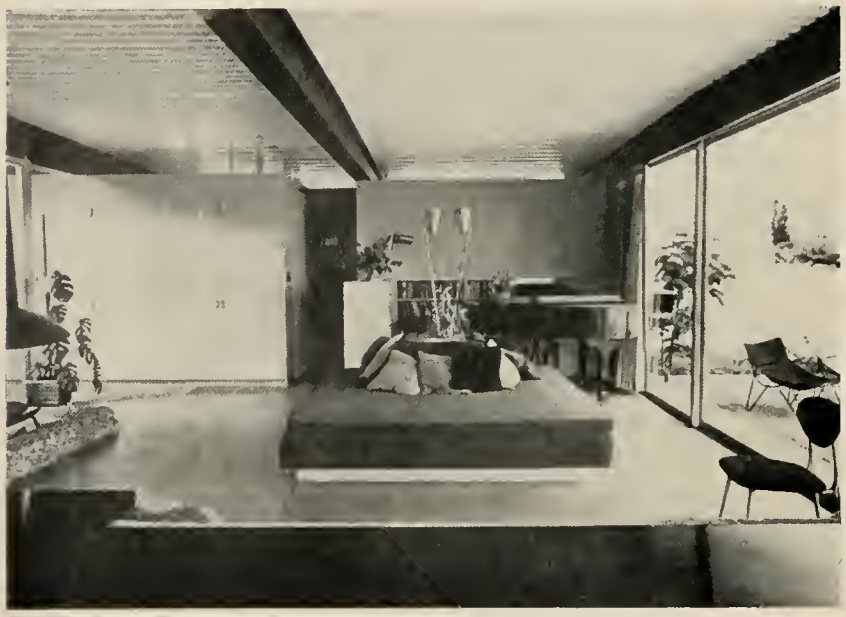
HILLSIDE RESIDENCE
of Jozz Pianist Dave Brubeck
Oakland, California

David Tharne,
Architect

Building site wos a solid mass of rock, so architect used structural steel which he cantilevered fram peak of rack moss to carry the house. Hame has a spectacular 360-degree view, yet affers privacy.

FLOOR PLAN af the Dave Brubeck family home. With steel framing, the architect was able to meet the functianal requirements of the owners without marring the natural beauty of the site, which overlooks San Francisco Boy. Anchored by steel ta o mass of rock, and because trees and boulders were left intoct, the home appears to spring fram solid rock, yet its spectocular cantilever seems ta soar, giving a "tree house" effect.





RESIDENCE

Dr. Donovan Cooke

Belvedere Island, California

Rophoel Soriano, Architect

Attractive, built-in cabinet walls give maximum utility to this spacious living room. Wide expanses of glass permit view of lagoon.

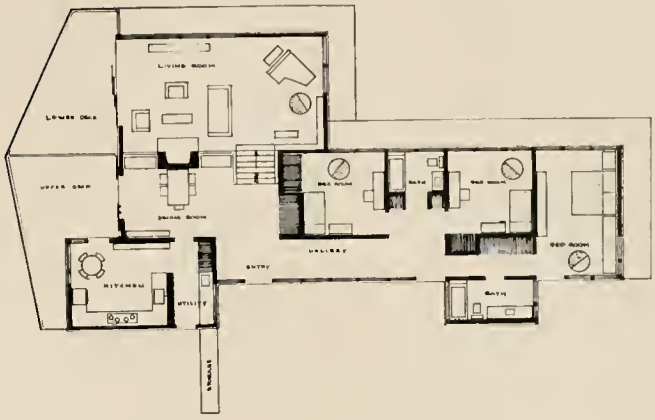
STEEL FRAMED HOME—Atherton, California. Designed by Don Knorr. Bi-nuclear plan used in designing this steel framed home. Sleeping quarters (L) are separated from living room area by glass walled entryway. Reflecting pool is located at rear of entry in enclosed patio. Using adobe and steel construction, costs were kept to $11.34 per sq. ft.

RESIDENCE
of
Dr. and Mrs. R. E. Schmidt

Belvedere Island,
California

Felix M. Warburg, Designer

FLOOR PLAN . . .



conventional building methods on a cost basis. Architects experienced in this new system maintain that steel can vie costwise with any quality wood-framed house.

Some West Coast contractors are building steel-framed homes on a tract basis. They find such homes readily lend themselves to mass production in the fabricating shop, yet at the same time offer extreme versatility in the field. Since a steel frame can be erected in a matter of hours, instead of days or weeks as with wood framing, construction costs are slashed accordingly.

One experimental house in the San Mateo Highlands represents a major step towards mass-produced dwellings. Using only those steel shapes readily available from warehouses, the architects designed this original and versatile dwelling for the average pocketbook.

Another has employed steel sheets in a way which may set a precedent for the mass-produced house. He devised a structural skeleton composed of hollow tubing made from quarter-inch sheets, fabricated into rigid frames, and erected at the site by four men in eight hours.

A steel-framed house is not to be confused with the so-called "prefabricated" structure. Prefabricated homes consist of heavy bulky difficult-to-handle panels which carry vertical loads and resist the lateral forces of earthquake, winds, etc. Since limitations of a pre-

(See page 27)

Generous deck areas take in a sweeping panorama of San Francisco Bay. A steel platform is used to elevate the house at tree-top level on a steeply sloped building lot.

NEW $2,000,000 MORMON CENTER—Oakland, California

TEMPLE HILL

INTERSTAKE CENTER

CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS

OAKLAND, CALIFORNIA

BURTON AND BURTON, Architects

By David W. Cummings

SOME INTERESTING FACTS

Looking westward from Temple Hill you grasp one of the cardinal reasons why Church Authorities focused their attention so promptly and so eagerly on this location . . . the breathtaking splendor of the view.

In the immediate foreground is the criss-cross of Oakland's streets . . . beyond, flanked by San Francisco's skyscrapers, the sweeping expanse of the Bay. Traversed by two mighty bridges, is stretches north, south and west through the Golden Gate and out to sea . . . a scenic panorama unsurpassed the world over.

Imagine that view in reverse from the deck of an ocean liner entering the harbor and headed for the Embarcadero. And imagine a gleaming white Temple rising majestically on this crest of the Oakland Hills as someday there most certainly will be. Those who catch that vista will remember the House of the Lord forever.

Central Location

The site comprises 18 acres, centrally located among the three East Bay Stakes. Reached by freeways and main thoroughfares, it is nevertheless well isolated from the noise of heavy traffic.

Originally a jagged hill, it has been graded down to a flat terrace that slopes gently toward Lincoln Avenue on the north. When the grading is completed and the entire hilltop levelled off, the building area will em-

brace approximately half the total acreage. The remainder is mostly lower fringe land, much of it devoted to parking.

More than 77,000 square feet are occupied by the Interstake Center and the Oakland First and Third Ward chapel, combined in one structure with intercommunicating hallway doors. Over 250 cars can eventually park on this level with broad driveways for entrance and exit. With the parking space at the base of the southern and eastern slopes, the total capacity will be 575 cars.

Interstake Center

The Center is divided into an auditorium seating 2,180 people and a recreation hall, large enough for two basketball games to be in play simultaneously—which may take place at tournaments. The recreation hall will seat 1,000 people at a banquet and twice that many at a meeting.

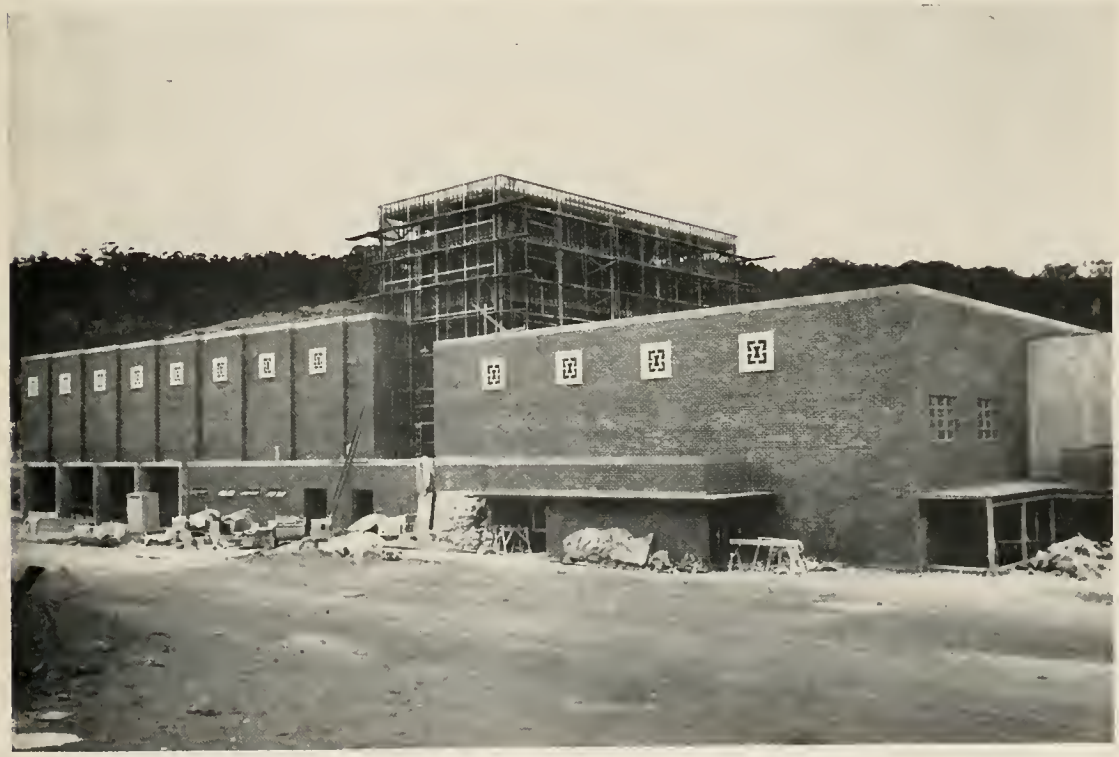
Between the auditorium and the recreation hall is a large stage with curtains which permit its use with either of the two units.

The auditorium has a main floor and balcony furnished with individual opera seats, numbered for reservation. Centered in the balcony is a large projection room for motion pictures, for receiving and relaying telecasts and for lighting the stage. The basic wiring for both receiving and transmitting television has been installed. The prime purpose is to receive telecasts of conference sessions from Salt Lake City on a closed circuit. Receiving sets can be placed on the stage facing both the auditorium and the recreation hall, in the Ward chapel, in the Ward recreation hall and in the baptistry. It is the intention to begin these telecasts at the first conference after the opening of the Center, if the necessary arrangements can be made.

A large screen can be lowered in the center of the stage. Motion pictures projected on it can be seen from either the auditorium or recreation hall.

An extremely sensitive public address system functions from the stage of the auditorium to the recreation hall, to the Ward chapel and recreation hall, the assembly room of the baptistry and to the Relief Society

BRICK IS USED LIBERALLY in construction of building, together with structural steel in center portion and light steel finishings. *Photo courtesy Woodward & Wilson, Inc.*



VIEW OF ENTRANCE to new Temple Hill Interstoke Center (Under construction)

Photo courtesy
L. P. McNear Brick Company

We are proud to have been
ELECTRICAL CONTRACTORS
for the **EAST BAY INTERSTAKE BLDG.**
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
Lincoln Ave. and Warren Freeway, Oakland

SINCE 1907

Crown
ELECTRIC MAINTENANCE CO.
Electrical CONTRACTING
LIGHTING FIXTURES
REPAIRS - ALTERATIONS
"Service"
IS OUR BUSINESS
85 Columbia Sq., San Francisco, MA 1-7756
3515 Randolph St., Oakland, KE 3-8383

department. A total of approximately 5,000 people can be comfortably seated, and listen to services or programs presented on the auditorium stage.

A portable ultra-modern pulpit has been obtained for use in the auditorium and elsewhere. It can be raised and lowered to suit the height of the speaker. It is equipped with two clocks—one a regular clock and the other a time clock. The latter can be set to flash a red warning light at the end of a given period. The presiding officer can inform a speaker of the time allotted to him and then set the clock to flash its warning at the end of that time. It is the modern way of obviating overtime speaking.

The Mormon tradition of organ music has been preserved—the auditorium will have a particularly fine instrument.

In the basement of the Center beneath the auditorium are two large areas as yet unfinished, but designed eventually to be used for record storage and

DETAIL OF INTERIOR of one section of new building, showing unique ceiling design and ample lighting.

Photo courtesy Crown Electric Co.

other purposes. On this lower floor, also, are offices for Stake Presidencies, Stake Clerks and a High Council room.

At the east end of the recreation hall is a large kitchen equipped to prepare food or refreshments for stake gatherings. Beneath the recreation hall is the baptistry which includes a font and an assembly room that can be separated by modern folding doors. The assembly room in the baptistry slopes toward the font so that the ordinance in progress can be seen by all present. It will seat 196, and dressing room facilities will accommodate 40 candidates at a session.

Ward Chapel

The Ward chapel is a distinctive and exquisite example of fine interior architecture. Large cylindrical lighting fixtures over the center portion not only illuminate adequately but add to the artistic effect. Installed in the chapel is the organ from the old Oakland chapel on MacArthur Boulevard, which was widely noted for its excellent tone.

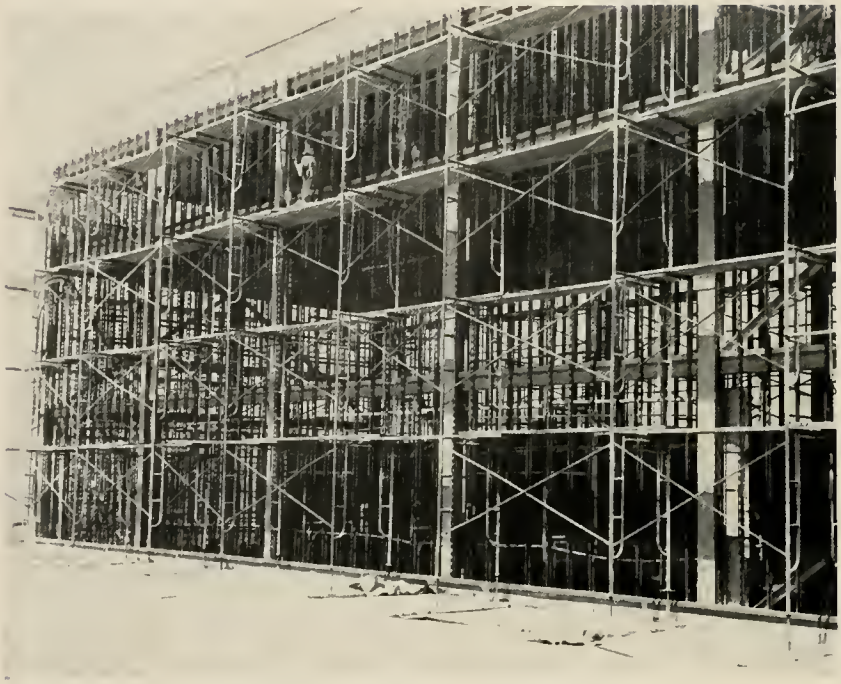
It has been a pleasure working with the CHURCH of Jesus Christ of Latter Day Saints. All Installations of the Light Steel Members, Metal-Furring, Metal lathing and Plastering of the Interior and Exterior by —

CLAUSEN & CLAUSEN

CONTRACTORS of LATHING & PLASTERING

Yard and Office

3124 Chestnut St., Oakland, Olympic 5-1033



DETAILS of Light Steel Construction

Photo courtesy Tayler Products Corporation

500,000 . . .

JUMBO BRICK

Used in construction of
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS,
Lincoln Avenue,
Oakland, California.

BURTON AND BURTON, *Architects*

L. P. McNEAR BRICK COMPANY

COMMON AND JUMBO BRICK

GLenwood 4-6811

P. O. BOX 119 SAN RAFAEL, CALIF.

Adjoining the chapel but separated by movable curtains is the Ward recreation hall. With the curtains drawn back and the recreation hall filled with chairs, the combined seating capacity is over 700.

The recreation hall is provided with a large stage equipped for dramatic and musical productions. At the opposite end is the lounge, which can be shut off by curtains and used separately. The lounge is a beautiful room, with luxurious furnishings and appointments. A feature is a cabinet for each ward to display trophies they have won.

The public address system carries the proceedings on the rostrum of the chapel to the recreation hall, the lounge and the Junior Sunday School room. The loud

THE BEAUTIFUL CALIFORNIA EASTBAY INTERSTAKE
ALL HEATING & VENTILATING BY

A. R. PETERSON AND SONS
HEATING AND SHEET METAL CONTRACTORS

2401 Grove Way HAYWARD, CALIF. LUcerne 1-4080 ELgin 1-5020

HEATING AND VENTILATING

Details of the construction of heating and ventilating facilities in auditorium.

Photo courtesy Peterson Heating & Ventilating Co.

speakers are notable for well modulated clarity.

The Ward building contains 18 Sunday School classrooms, a large room for the Junior Sunday School and offices for the officers of both wards. One of the bigger classrooms is especially equipped for Seminaries.

Conclusion

The building containing the Center and Ward chapel is built of steel, concrete and brick, class A construction. The architecture is modern and highly functional in character.

Harold Burton and his son, Douglas, who have designed a number of the temples and other Church structures, were the architects. J. Howard Dunn was project manager, James C. Everett, superintendent and Thys Winkel, project clerk.

A program of landscaping is under way. Growing palms and other trees and shrubbery are to be planted immediately and ice plant, ivy and lawns sown in the open spaces. The objective is the loveliest possible setting, first for the Interstake Center, and eventually for the Temple that is to come.

INTERIOR VIEW of light steel construction.

Photo courtesy Clausen & Clausen, Lathing and Plastering

. . . We are proud to have been the

MASONRY CONTRACTORS
for the new **EAST BAY**
INTERSTAKE BUILDING
CHURCH of **JESUS CHRIST**
of **LATTER DAY SAINTS**

Warren Freeway at Lincoln Ave.
Oakland, California

•

WOODWARD
&
WILSON, INC.

Masonry Contractors

•

MAIN OFFICE
759 - 11th St., RICHMOND, CALIF.
Phone BEacon 2-1164

RICHELIEU HOTEL

OPENS NEWLY REDECORATED LOBBY, CORRIDORS AND MAIN ENTRANCE

SAN FRANCISCO, CALIFORNIA

STANLEY SOLOMON, Designer

Careful planning, cost saving methods and good promotion are some of the factors essential to injecting new life into, and attracting business to, the Richelieu Hotel, one of the larger hotels on Van Ness Avenue, in the heart of San Francisco's automobile row.

Not only was the management faced with meeting competition from other hotels and elaborately designed and furnished motels, but in the very near future the new $12,000,000 Jack Tar Hotel, now under construction, will open its doors — right across the street from the Richelieu Hotel.

It obviously was essential that the hotel's facilities be modernized and that the interior be redesigned to present a most cordial and warm feeling of friendliness to those entering the building.

For this purpose Stanley Solomon, a native of China and a graduate of the Hong Kong University, was assigned the task of architectural designer and commercial decorator to furnish an ultra-modern decor at a modest cost.

Some of the steps taken to transform the former "lounge" into a modern lobby, and the cost of these changes from old to new look, will be of interest to every hotelman who faces a similar problem. Existing conditions were utilized to a large degree, thus making it possible to cut down costs substantially.

All the walls in the area were treated with a new veneer of ribbon mahogany, covered with transparent plastic and backed with a metal foil. This gives a true simulation of wood paneling and is applied to the

Real Wood Veneer for Easy Decoratar Paneling

FURNAFLEX*

with lifetime vinyl finish

Flexible, easy to apply to flat, round or curved surfaces! Aluminum foil-backed for permanent, insulating bond! Clear vinyl surfaced to protect and preserve natural wood finish permanently—without waxing or polishing! Resistant to acids, alkalis, household oils and greases. Matched or random width panels in 4' x 8' sheets. Dull, satin or gloss finish.

*Patent applied for.

CHERRY • WALNUT
OAK • MAHOGANY
BIRCH

Other woods available on special order. Write for Furnaflex brochure.

WILCOX-WOOLFORD CORP.
SPRING CITY, PENNSYLVANIA

REPRESENTATIVE:

EVJU PRODUCTS CO., INC.

WORLD TRADE CENTER • SAN FRANCISCO
YUkon 6-5516

WORKMEN APPLY clear vinyl surfaced decorative panel.

Photos by Davis

WORKMEN APPLYING FINAL TOUCHES TO REMODELING OF LOBBY

Photo courtesy
EVJU Products Co., Inc.

walls by means of an adhesive with a rubber base. The walls treated include the elevator foyer leading to the lobby entrance, the corridors and the main entrance-way.

The ceilings of the area were treated in a gold color, with indirect lighting to highlight the design, and also installed were new rugs and a new type of mosaic mural in the lobby.

VIEW OF LOBBY

showing new modern interior, new ceiling, new lights, and new rugs.

Photo courtesy
Stanley Solomon, Designer

American Institute of Architects

John Noble Richards, President
Philip Will, Jr., 1st Vice-President — Edward L. Wilson, Secretary
Henry L. Wright, 2nd Vice-President — Raymond S. Kastendieck, Treasurer
Edmund R. Purves, Executive Secretary

National Headquarters—1735 New York Avenue, N.W., Washington, D. C.

REGIONAL DIRECTORS—**Northwest District,** Donald J. Stewart, Portland, Oregon; **Western Mountain District,** Frederick H. Porter, Sr., Cheyenne, Wyoming; **California-Nevada-Hawaii District,** Ulysses Floyd Rible, Los Angeles, California.

ARIZONA CHAPTERS:

CENTRAL ARIZONA: David Sholder, President; A. John Brenner, Vice-President; Jimmie R. Nunn, Secretary; Kemper Goodwin, Treasurer; James W. Elmore, Director; Ralph Haver, Director; Martin Ray Young, Jr., Director. Office of Secy., P.O. Box 904, Phoenix.

SOUTHERN ARIZONA: Sanrry Clay Fuller, President; Edward H Nelson, Vice-President; David S. Swanson, Secretary; Robert J. Ambrose, Treasurer; D. Burr DuBois, Director; Eleazar D. Herreras, Director; Emerson C. Scholer, Director. Office of Secy., 2343 South Tucson Avenue, Tucson.

COAST VALLEYS CHAPTER:

William L. Higgins (San Jose), President; Paul J. Huston (Palo Alto), Vice-President; William H. Daseking (Menlo Park), Treasurer; Edward N. Chamberlain (San Jose), Secretary. Office of Secy , 390 Park Ave., San Jose.

CENTRAL VALLER OF CALIFORNIA:

Josepb J. Jozens, President (Sacramento); Armsby Tod Hart, Vice-President (Sacramento); Albert M. Dreyfuss, Secretary (Sacramento); Whitson W. Cox, Treasurer. Office of Secy., 2127 "J" St , Sacramento.

COLORADO CHAPTER:

Casper F. Hegner, President: C. Gordon Sweet, Vice President; Norton Polivnick, Secretary; Richard Williams, Treasurer. Directors: James M. Hunter, Robert K. Fuller, Edward L. Bunts. Office of Secy., 1225 Bannock St., Denver, Colorado.

EAST BAY CHAPTER:

George T. Kern, President; W Roland Gibbs, Vice-President; Frank Lockwood, Secretary; Arthur Iwata, Treasurer Directors: Robert J. Gianelli, Robert Oyarzo, Gerald McCue Marjorie Montgomery, Exec. Sec'y. Office, Mezzanine, Hotel Claremont, Berkeley 5.

IDAHO CHAPTER:

Anton E. Dropping, Boise, President; Charles W. Johnston, Payette, Vice-President; Glenn E. Cline, Boise, Sec.-Treas Executive Committee: Chester L. Shawver and Nat J. Adams, Boise. Office of Secy., 624 Idaho Bldg., Boise.

MONTEREY BAY CHAPTER:

Robert Stanton, President (Carmel); Walter Burde, Vice-President; William L. Cranston, Secretary; George Kuska, Treasurer. Office of Secy., P.O Box 1846, Carmel.

MONTANA CHAPTER:

William J. Hess, President (Great Falls); John E. Toohey, Vice-President (Billings); H. C. Cheever, Secy.-Treas. (Bozeman). Directors: Oscar J. Ballas, Wm. J. Hess, John E. Toobey. Office of Sec., Bozeman, Montana

NEVADA CHAPTER:

RENO: William E. Cowell, President; Albert W. Alegre, Vice-President; Ralph A Casazza, Secretary; John Crider, Treasurer. Directors Graham Erskine, George L. F. O'Brien, Laurence A. Gulling. Office of the Secy. 232 W. 1st St , Reno, Nevada.

WOMEN'S ARCHITECTURAL LEAGUE: (Reno) Mrs. Eileen Casazza, President; Mrs. Lucille Lackard, Vice-President; Mrs. Glades Cowell, Secretary; Mrs. Enid Hellman, Treasurer.

LAS VEGAS: Walter F. Zick, President; Aloyius McDonald, Vice-President: Edward B. Hendricks, Secy.-Treas. Directors: Walter F. Zick, Edward Hendricks, Charles E. Cox. Office of Secy., 106 S. Main St., Las Vegas.

NEVADA STATE BOARD OF ARCHITECTS:

Russell Mills, Chairman (Reno); Aloysius McDonald, Sec-Treas. Members: L. A. Ferris, Elmo C. Bruner, Edward S. Parsons. Office, 1420 S. 5th St., Los Vegas.

NORTHERN CALIFORNIA CHAPTER:

Donald Powers Smith, President; Corwin Booth, Vice-President; Joseph Esherick, Secretary; Richard S. Banwell, Treasurer. Directors: John W. Kruse, John L. King, Alexander Yuill-Thornton, Andrew Hass, May B. Hipshman, Exec.-Sec'y. Office, 47 Kearny St., San Francisco.

ORANGE COUNTY CHAPTER:

William T. Jordan, President (Costa Mesa); Donald M. Williamson, Vice-President (Laguna Beacb); J. Herbert Brownell, Secretary; Rumont W. Hougan, Treasurer. Office of Secy., 1950 W. Coast Highway, Newport Beach.

OREGON CHAPTER:

John K. Dukehart, President; Keith R. Maguire, Vice-President; Robert Douglas, Secretary; Harry K. Stevens, Treasurer. Directors: Daniel McGoodwin, Earl P. Newherry, Everett B. Franks, Robert W. Fritsch, Donald W. Edmundson. Office of Secy., 2041 S.W. 58tb Ave., Portland 1.

ARCHITECTS FORM PARTNERSHIP: Charles W. Dennis, Pleasant Hill, California, and William E. Cowell, Reno, Nevada, have formed a partnership for the general practice of architecture under the name Cowell & Dennis. Offices have been opened in the Pleasant Hill Professional Bldg., 70 Doray Drive, Pleasant Hill, California.

SIDNEY W. LITTLE, Dean of the College of Fine Arts and head of the department of architecture at the University of Arizona, has been appointed to serve as one member of a three-man team for the review of accreditation for the University of Texas School of Architecture.

ARCHITECTURAL SEMINAR: The San Francisco Architectural Club, 507 Howard Street, San Francisco, is again offering an architectural seminar or review course, for those who plan to take the examination of the California State Board of Architectural Examiners this year. Consisting of 23 lectures, the Seminar will start February 2.

RICHARD J. NEUTRA, F.A.I.A., was the featured speaker at the January meeting of the Pasadena Chapter A.I.A., held in the Huntington-Sheraton Hotel. His subject was "Man, the Measure," and described a recent trip through 15 foreign countries.

JOHN NOBLE RICHARDS, Toledo, Ohio, was the principal speaker at the January meeting of the Southern California Chapter A.I.A., held in the Beverly-Hilton Hotel ballroom.

ARCHITECTURAL SENSITIVITY PROGRAM has been announced for architects by the University of California, University Extension. To be presented in Los Angeles, it deals with relationships between the client, the staff, and the public.

EAST BAY ARCHITECTS TOUR KAWNEER PLANT: The January Chapter meeting included a tour of the new headquarters and manufacturing facilities of the Kawneer Company in Richmond, Calif.

EDWARD H. NELSON has been elected President of the Southern Arizona Chapter, A.I.A.; also, Gerald I. Cain, vice-president; Robert J. Ambrose, secretary; and David S. Swanson, treasurer.

WESTERN DESIGNERS MAKE USE OF STEEL FRAMING

(From page 17)

fabricated design are built right into the structural components, the architect is restricted to a certain number of openings per panel. Consequently, all mass-produced perfabricated houses appear to be stamped from the same mold.

However, with a steel frame bearing all the structural weight, none of the load is carried by the walls, and opportunities for originality in design are virtually limitless. With such design flexibility, walls may be made with equal ease of metal, wood, plastic or glass panels.

One of the most entrancing features of steel framing is that it completely "opens up" the home's interior. Since inside walls carry no loads, they are strictly partitions which set aside certain areas for specific purposes. Built-in cabinets, for example, can be constructed in a shop, shipped to the building site, and moved into the house to serve as a wall. Since the walls are not fixed, they can be moved with minimum of effort, permitting the owner to redesign the interior of his house for changes in living conditions.

Tough building sites pose no problems. With a few tons of steel a piece of useless San Francisco real estate was turned into a choice view site for 2,000 square feet of house on a 50 to 70 per cent slope costing less than $25,000. The steel frame not only solved the expensive problem of underpinning to elevate the house to street level, but greatly shortened the erection time, thereby reducing the overall construction cost.

In a similar situation, the natural beauty of a steeply sloping lot on an island was preserved by using a structural steel frame.

Exciting effects with steel are numerous. Designers have used these innovations with spectacular success: "Floating" the house from a rigid framework of steel in the roof, elevating the house to "tree top" level on a steel platform to take advantage of view, cantilevering entire living room areas as much as 32 feet, and using movable interior walls so the tenant can adjust to changes in the household.

An "old Spanish" adobe home, for example, was turned into a sleek design by framing adobe bricks between the flanges of steel "H" sections. This steel-framed house, covering an area of 3,474 square feet, was built at a cost of $11.34 per square foot. It contains four bedrooms and three baths in a bi-nuclear arrangement with a glass-walled entryway separating them from the dining and entertaining facilities of the house. In this design, the architect capitalized on the favorable qualities of native building materials and the supporting strength of steel.

Concerning this exciting new era in home building, many architects feel steel framing possibilities in home design have barely been tapped.

PASADENA CHAPTER:

H. Douglas Byles, President; Edward D. Davies, Vice-President; Ward W. Deems, Secretary; Robert F. Gordon, Treasurer. Directors: Mal Gianni, Lee B. Kline, Keith B. Marston, Donald E. Neptune. Office of the Secy., 170 E. California St., Pasadena.

SAN DIEGO CHAPTER:

Raymond Lee Eggers, President; William F. Wilmurt, Vice-President; Lloyd P. A. Ruocco, Secretary; Delmar S. Mitchell, Treasurer. Directors: John C. Deardorf, Richard George Wheeler and Sam Bruce Richards. Office of the Secy., 3603 5th Ave., San Diego 3.

SAN JOAQUIN CHAPTER:

Robert C. Kaestner, President (Visalia); William G. Hyberg, Vice-President (Fresno); Lawrence B. Alexander, Secretary; Edwin S. Darden. Office of Secy., 128 E. 8th St., Hanford.

SANTA BARBARA CHAPTER:

Wallace W. Arendt, President (Santa Barbara); Darwin E. Fisher, Vice-President (Ventura); Walter Tibbetts, Secretary; Kenneth H. Hess, Treasurer. Office of Secy., 630 Para Grande Lane, Santa Barbara.

SOUTHERN CALIFORNIA CHAPTER:

Maynard Lyndon, President; A. Quincy Jones, Vice-President; Howard Morgridge, Secretary; Henry Silvestri, Treasurer. Office of Secty., 208 W. 8th St., Los Angeles.

SOUTHWEST WASHINGTON CHAPTER:

Robert Billsborough Price, President; Robert T. Olson, 1st Vice-President; Donald F. Burr, 2nd Vice-President; Percy G. Ball, Secretary; Alan C. Liddle, Treasurer; Charles T. Pearson and George Leonard Elkvall, Trustees. Office of Secy., 2715 Center St., Tacoma 2, Washington.

UTAH CHAPTER:

W. J. Monroe, Jr., President, 433 Atlas Bldg., Salt Lake City; M. E. Harris, Jr., Secretary, 703 Newhouse Bldg., Salt Lake City.

WASHINGTON STATE CHAPTER:

Harrison J. Overturf, President; Lawrence G. Waldron, 1st Vice-President; Thomas F. Hargis, Jr., 2nd Vice-President; Talbot Wegg, Secretary; David R. Anderson, Treasurer. Office of Secy., Miss Gwen Myer, Executive Secty., 409 Central Bldg., Seattle 4.

SPOKANE CHAPTER:

Wm. C. James, President; Carl H. Johnson, Vice-President; Keith T. Boyington, Secretary; Ralph J. Bishop, Treasurer; Lawrence G. Evanoff, Carroll Martell, Kenneth W. Brooks, Directors. Office of the Secy., 615 Realty Bldg., Spokane.

HAWAII CHAPTER:

Howard L. Cook, President; Douglas W. Freeth, Vice-President; Francis S. Haines, Secretary; Clifford F. Young, Treasurer. Directors, Richard N. Dennis, Frank Slavsky, William D. Merrill. Office of Secretary, 1410 Kapiolani Blvd., Honolulu 14.

CALIFORNIA COUNCIL, THE A.I.A.:

L. F. Richards, Santa Clara, President; Lee B. Kline, Los Angeles, Vice-President; Edward H. Fickett, Los Angeles, Secretary; Allen Y. Lew, Fresno, Treasurer. Miss Mary E. White, Office Secretary, 703 Market Street, San Francisco 3.

CALIFORNIA STATE BD. ARCHITECTURAL EXAMINERS:

Malcolm D. Reynolds, President (Oakland); Kenneth Wing, Secretary (Long Beach); Wendell R. Spackman (San Francisco); Paul Davis (Santa Ana), and Frank Cronin, Executive Secy., 1020 N St., Sacramento 14.

ALLIED ARCHITECTURAL ORGANIZATIONS

SAN FRANCISCO ARCHITECTURAL CLUB:

Orville Hickenlooper, President; Morris Barnett, Vice-President; John Beckman, Secretary; Carvel Johnson, Treasurer. Directors: Frank Barsotti, Frank Capone, Glenn Crellin, Mel Rojko. Office of Secty., 507 Howard St., San Francisco 5.

PRODUCERS' COUNCIL—SOUTHERN CALIFORNIA CHAPTER:

Clay T. Snider, President, Minneapolis-Honeywell Regulator Co., L.A.; E. J. Lawson, Vice-President, Aluminum Company of America, L.A.; E. Phil Filsinger, Secretary, Gladding, McBean & Co., L.A.; William G. Aspy, Treasurer, H. H. Robertson Co., L.A.; Henry E. North, Jr., National Director, Arcadia Metal Products, L.A.; Office of the Secy., 2901 Los Feliz Blvd.

PRODUCERS' COUNCIL—NORTHERN CALIFORNIA CHAPTER:

R. W. Harrington, President, Clay Brick & Tile Ass'n.; P. C. Christensen, Vice-President, Truscon Steel Div., Republic Steel Corpn.; Philip D. Mittell, Secretary, Otis Elevator Co.; William E. Black, III, Treas., Libby, Owens, Ford Glass Co.

PRODUCERS' COUNCIL—SAN DIEGO CHAPTER:

Eugene E. Bean, President, Fenestra Inc., James I. Hayes, Vice-President, Westinghouse Electric Co.; E. R. Shelby, Secretary, The Celotex Corp. (El Cajon); Joseph C. Langley, Treasurer, Republic Steel Corp., Truscon Steel Div. (Lemon Grove). Office of Secy., 1832 Wedgemore Rd., El Cajon.

CONSTRUCTION SPECIFICATIONS INSTITUTE—LOS ANGELES:

George Lamb, President; Herman Boisclair, Vice-President; Jack Whiteside, Secretary; Frank Rasche, Treasurer. DIRECTORS: Walter Hagedohm, Raymond Whalley, Martin A. Hegsted, Chas. F. Wetherbee, Arthur T. Rairt and E. Phil Filsinger. Advisory Member: R. R. Coghlan, Jr. Office of Secy., Box 26114, Edendale Sta., Los Angeles 22.

CONSTRUCTION SPECIFICATIONS INSTITUTE

San Francisco Area Chapter:

Leonard M. Tivol, President; Emery Theo. Hirschman, Vice-President; Roual D. Shelly, Treas.; William LaGette, Secty. Directors: Frank L. Barsotti, Herman R. Jobst, Walter M. Krohn, Charles S. Pope, Erland Siran. Office of Secty., Kaiser Aluminum & Sales Co., 360 22nd St., Oakland 12.

WITH THE ENGINEERS

Structural Engineers Association of California

Joseph Sheffet, President; J. Albert Paquette, Vice-President; William A. Jensen, Secty.-Treas. Directors: R. W. Binder, C. M. Herd, H. J. Degenkolb, H. F. Finch, J. M. Sardis, D. M. Wilson and H. S. Kellam. Office of Secty., 64 Pine Street, San Francisco.

Structural Engineers Association of Northern California

Charles De Maria, President; Leslie W. Graham, Vice-President; Samuel H. Clark, Secty; H. Robert Hamill, Asst. Secty.; William K. Cloud, Treas. Directors: Chas. De Maria, Leslie W. Graham, Marvin A. Larson, Eric O. Moorehead, J. Albert Paquette, Donald M. Teixeira, Richard J. Woodward. Office of Secty., 417 Market St., San Francisco 5.

Structural Engineers Society of the East Bay

M. P. Superak, President; D. R. Judd, Vice-President; MacGregor Graham, Sec'y-Treas. Office of Sec'y, 1952 Wright Ave., Richmond.

Structural Engineers Association of Central California

A. L. Brinckman, President; Wendell F. Pond, Vice-President; Gordon M. Hart, Sec.-Treas.; Jack S. Barrish, Norman W. Beattie, Albert T. Brinckman, James J. Doody and Wendell F. Pond, Directors.

Structural Engineers Association of Southern California

Harald Omsted, President; Jack Sparling, 1st Vice-President; Roy Johnston, 2nd Vice-President; C. M. Biddison, Treasurer. Directors: Carl Nelson, Irvan Mendenhall, William Ropp, Charles Peterson, Robert Wilder and Norman Green. Office of Secty., 2808 Temple Street, Los Angeles 26.

AMERICAN SOC. OF CIVIL ENGINEERS SAN FRANCISCO SECTION

Newly elected officers for 1959 include Harmer E. Davis, President; John S. Blume, First Vice-President; Byron L. Nishkian, Second Vice-President; Robert T. Lawson, Secretary; and James E. McCarty, Treasurer.

Nominations for the Howard Medalist are being received through the Society. The award is presented to a member of the ASCE "who has made a definite contribution to the advancement of structural engineering, either in research, planning, design or construction, including methods and materials." Nominations are not restricted as to the year in which the cited structure was built.

WALLS OF CLEANLINESS--

KRAFTILE GLAZED STRUCTURAL UNITS

Easy To Clean — Low Maintenance — Wear Forever

1 FOR Shower Rooms, Dressing Rooms, Wash Rooms — in schools, factories, institutions. Not affected by steam, chemicals, stains or odors.

2 FOR Surgeries, Laboratories, First Aid Rooms, Veterinary Hospitals. Fire resistant, vermin proof. Won't chip, crack or fade.

3 FOR Food Processing Plants, Kitchens, Lunchrooms, Dairies — or wherever low cost maintenance, high sanitation standards and permanent, economical construction are indicated. Never needs patching or painting.

Complete wall and finish combined. Modular 6" x 12" face size for easy, low-cost installation by masons alone. Wall thicknesses, 2", 4" and 6". Kraftile quality control assures uniformity in color, size, shape and structural strength. Available in clear and 12 lifelong ceramic color glazes.

Ask for free Fact Sheets, specifications, Graphic Standards Manual.

KRAFTILE COMPANY

NILES, CALIFORNIA

MADE IN THE WEST . . . FOR WESTERN CONSTRUCTION

NATIONAL ENGINEERS' WEEK SOUTHERN CALIFORNIA

The Structural Engineers Association of Southern California have scheduled an "Engineers' Banquet" for February 26th in the Palladium, Los Angeles, for the purpose of observing National Engineers Week, which is scheduled for observation throughout the nation, February 22-28.

Also sponsoring the event are the Los Angeles Technical Societies, the Los Angeles Council of Engineering Societies, and the Consulting Engineers Association, assisted by the Los Angeles Chamber of Commerce.

FEMINEERS

The January meeting was held in the San Francisco Women's Athletic Club, preceded by a social hour which started at 11:30 a.m.

The following newly elected officers were installed: Mrs. A. J. Paquette, President; Mrs. Theodore Newman, Vice-President; Mrs. Robert T. Lawson, Recording Secretary; Mrs. Ned P. Clyde, Corresponding Secretary; Mrs. Herman V. Yank, Treasurer; Directors Mesdames F. R. Preece and Jason Bloom.

Entertainment in the form of "bingo" games completed the meeting.

CIVIL ENGINEERING FELLOWSHIP NOW AVAILABLE

A new Fellowship Grant in the field of civil engineering research has been announced by the American Society of Civil Engineers.

The Research Fellowship was established by the Board of Directors, for the purpose of aiding in the creation of new knowledge for the benefit and advancement of the science and profession of civil engineering. The grant is in an amount of $5,000.00 and

American Society of Civil Engineers
Los Angeles Section

George E. Brandow, President; Ernest Maag, Vice-President; L. LeRoy Crandall, Vice-President; J. E. McKee, Secretary; Alfred E. Waters, Treasurer. Office of Secy., California Institute of Technology, Pasadena, Calif.

Sec.y-Treas.; 4865 Park Ave., Riverside. Ventura-Santa Barbara Counties Branch, Robert L. Ryun, Pres.; Richard E. Burnett, Vice-President; George Conahey, Secy.-Treas., 649 Doris St., Oxnard.

American Society of Civil Engineers
San Francisco Section

Wm. W. Moore, President; Harmer E. Davis, 1st Vice-President; John A. Blume, 2nd Vice-President; B. A. Vallerga, Secretary; Ben C. Gerwick, Jr., Treasurer. Office of the Sec. (Mrs. Ola H. Dewell, Mgr.) Room 302, Atlas Bldg., 604 Mission St., San Francisco 5.

San Jose Branch

Stanley J. Kocal, President; Charles L. Coburn, Vice-President; Myron M. Jacobs, Secty. and Treas.

Structural Engineers Association of Oregon

Charles H. Woodworth, President; Arthur M. James, Vice-President; Cyril Burgstahler, Secy-Treas. Directors, James G. Pierson, George A. Guins, Robert M. Bonney, Albert P. Jensen, Jr. Office of Secy 717 Bd. of Trade Bldg, 310 S.W. 4th Ave. Portland 4, Oregon.

Society of American Military Engineers
Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer; Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials
Northern California District

R. W. Harrington, Chairman; G. L. Grieve, Vice-Chairman; R. C. Vollmer, Secretary. Office of Secty., 988 Creston Road, Berkeley 8, Calif.

American Society for Metals

Los Angeles Chapter: John E. Wilson, Chairman; Stuart K. Oliver, Vice-Chairman; H. A. Curwin, Secretary; W. V. Wood, Treasurer; K. L. Clark, Asst. Secretary. Office Secy., Earle M. Jorgensen Co.

Society of American Military Engineers—San Francisco Post

Col. Edwin M. Eads, USAF, President; C. R. Graff, 1st Vice-President; Col. Seymore A. Potter, Jr., 2nd Vice-President; Roger L. Cairns, Secretary; Donald C. Bentley, Treasurer. Directors—Col. John S. Hartnett, USA; Donald McCall; Capt. A. P. Gardiner, USN; C. Grant Austin, and Rex A. Daddisman. Office Secy. USAF, U.S. Appraisers Bldg, 630 Sansome St., San Francisco.

---

will be made annually to members of the ASCE, in any grade, citizens of the United States and graduated from an accredited curriculum.

SOCIETY OF AMERICAN MILITARY ENGINEERS—San Francisco Post

The Annual Dinner Dance will be held March 20th in the Officers' Club, Presidio of San Francisco, and owing to limited facilities arrangements for tickets should be made at once with W. G. Messimer, secretary.

NATIONAL ENGINEERS WEEK FEBRUARY 22-28

John M. Sardis has been named General Chairman of the San Francisco Bay Area Committee for National Engineers Week which will be observed throughout the nation February 22 to 28.

Numerous events are being scheduled for the week, including an Engineers' Banquet, at which some nationally known engineer will be the guest speakers; talks before luncheon and Service Clubs by members of the Engineers Speakers Club; and window displays throughout the Bay Area.

STRUCTURAL ENGINEERS ASSOC. NORTHERN CALIFORNIA

John A. Blume, John A. Blume & Associates, Engineers, San Francisco, was the principal speaker at the January meeting held in the Engineers' Club, San Francisco, taking as his subject "Off-Shore Facilities." His discussion included the design and construction problems involved with off-shore oil production installations and colored slides were shown to show the actual construction of man-made island in the Santa Barbara Channel

LADIES AUXILIARY MEETING

The Ladies' Auxiliary of the SEASC, will hold their February meeting at the Women's University Club, Sixth and Catalina, Los Angeles, on the 11th, observing their fifth birthday with an interesting program.

THE WORD GETS AROUND . .

When You Want Waterproof Concrete Specify

ANTI-HYDRO

Here's your very best liquid concrete additive to waterproof, harden and internally cure concrete and mortar.

A TRIAL WILL CONVINCE YOU!

Distributed by

PCA

Pacific Cement & Aggregates, Inc.

Contact the Nearest PCA Sales Office

SAN FRANCISCO OAKLAND SAN JOSE
STOCKTON SACRAMENTO FRESNO

FORDERER CORNICE WORKS

Manufacturers of

- Hollow Metal Products
  - Interior Metal Trim
    - Elevator Fronts and Cabs
- Metal Plaster Accessories
  - Sanitary Metal Base
    - Flat and Roll Metal Screens
- Metal Cabinets
  - Commercial Refrigerators

269 POTRERO AVENUE
SAN FRANCISCO, CALIF.
HEmlock 1-4100

NEW AGE ARCHITECTURE

(From page 3)

materials, with walls of "vast towers" only three-eighths of an inch thick, and imposing concrete arches in use as roofs for public buildings and sports arenas.

Edward Stone and Nathaniel A. Owings added that better design in new commercial buildings pays off in the long run. They called on architects to convince their clients that good architecture will enrich the nation. Mr. Stone urged his fellow professionals to again think of themselves "as artists."

Mies vander Rohe agreed that flexibility of modern design would help arrest a lot of regimentation in new construction.

On the other hand, Vernon DeMars, A.I.A., said our "American genius for mass production," exemplified by our new supermarkets, must be kept out of our home communities, now making our new dwellings as alike as "canned goods on the store shelf."

LUCKMAN, PEREIRA END PARTNERSHIP

Charles Luckman, president of the planning, architectural and engineering firm of Pereira & Luckman, Los Angeles, announced recently that the firm's name has been changed to Charles Luckman Associates.

William L. Pereira, an AIA Fellow, will resume his own practice devoted exclusively to planning and architecture.

JUDSON PACIFIC-MURPHY CORP.

Steel Fabricators
and
Erectors

•

REINFORCING STEEL
STRUCTURAL STEEL
BRIDGE CRANES

•

4300 EASTSHORE HWY.
EMERYVILLE, CALIF.

Phone:
OL 3-1717

PACIFIC MANUFACTURING CO.

High Class Interior Finish

Quality Millwork

16 Beale St., San Francisco
GArfield 1-7755

2115 "J" Street — Sacramento
GIlbert 2-7633

3345 Leonis Blvd. — Los Angeles
LUdlow 5-1211

2610 The Alameda — Santa Clara
AXminster 6-2040

AMERICAN CONCRETE INSTITUTE SCHEDULES LOS ANGELES MEET

The Annual Convention of the American Concrete Institute will be held at the Statler Hotel, Los Angeles, February 23-26, with programs geared to emphasize latest projects and construction methods in the western United States.

Programs will be devoted to "working sessions", technical programs, proposed standards, construction and special problems in concrete, and design analysis, and concreting materials and methods.

FRESNO CENTRAL AREA PLANNING PROGRAM

Three contracts calling for complete planning studies of the Fresno Central Area have been awarded to Victor Gruen Associates, nation-wide architectural and planning firm with headquarters in Los Angeles. Principals in the project include R. N. Klein, Chief Administrative Officer for the City of Fresno; Harris O. Hogenson, Executive Director of the Redevelopment Agency for the city; and Leonard Gross, President of the Fresno One Hundred Percenters, a group of downtown businessmen.

Studies will include plans for land use, traffic, parking, location and arrangement of civic buildings, and proposals for phased implementation of the plans. The Fresno project is expected to be completed in approximately nine months.

ARCHITECT SELECTED FOR NEW FIRE HOUSE IN SAN ANSELMO

The architectural firm of Malone & Hooper, 619 Sansome Street, San Francisco, has been commissioned by the City of San Anselmo, California, to design and draft plans and specifications for construction of a new Fire House and an addition to the Public Library in San Anselmo.

ARCHITECT TELLS RESULTS OF ELEVEN YEAR PRODUCT STUDY

Vast new opportunities for builders of commercial structures, research centers, schools, hospitals and other institutions are seen in a report by Harold C. Bernhard, architect, disclosing the results of an 11-year "endurance" test of Johns-Manville's Colorlith, a mixture of Portland cement and carefully selected asbestos fibers integrally combined with chemically resistant colorings and fillings.

A bright new future for this versatile material is based upon the results of its successful use first in table tops, and then in walls, window sills and other areas. It has proved itself as a decorative and durable wainscoting in lobbies, halls, kitchens, locker rooms and rest rooms, and combines impressive tensile, sheer and compressive strength.

ARCADIA METALS NORTH ELECTED OFFICER OF PRODUCERS COUNCIL

Henry E. North, Arcadia Metal Products Co., Fullerton, California, was elected second vice president of the Producers Council of America at the organization's 37th Annual Meeting recently held in Miami, Florida.

Among other west coast members of the Council named to serve as directors was Don A. Proudfoot of the Simpson Timber Company of Seattle, Washington.

The conference determined the conclusion that the field of distribution offered greater potential savings in construction costs than did technical developments in manufacturing.

FOOD ENGINEERING SERVICE FIRM ANNOUNCED

Creation of the Robert Kneisley Associates, 1920 S. La Cienega Blvd., Los Angeles, as food facilities engineers and consultants has been announced by Robert R. Kneisley.

As an adjunct to architects with projects in the commercial feeding field, the new organization offers a complete engineering and designing service that covers the entire Food Service Industry, including hotels, restaurants, bowling alleys, coffee shops, cocktail lounges, and schools.

Formation of the new company marks an expansion of activities for Kneisley, who previously extended similar services.

LUXURY MOTEL FOR SAN JOSE

Architect Homer Risman, Los Angeles, has completed plans for construction of a new Luxury Motel in San Jose for the Sierra Pacific Corp'n. of Los Gatos.

The estimated cost of the project is $2,600,000.

SPECIFY WITH CONFIDENCE

You are sure of permanent satisfaction when you specify HAWS—for 50 years the pace-setter in developing better materials, design and skilled workmanship. You seek drinking facilities that will do credit to your design achievements, and yield the utmost in sanitation and service. To realize these aims...specify HAWS with confidence.

Semi-Recessed Model 73, in stainless steel; similar models in vitreous china, porcelain enameled steel.

Model 7X, enameled iron, wall mounted; freeze-proof valve assembly available.

Contonment type Model 150S typifies HAWS dramatic styling achievements.

HAWS Electric Water Coolers available in full range of capacities and styles for commercial, industrial and private uses: restaurant and cafeteria types, remote coolers, wall insert units.

Model 10Y, multiple fountain in colorful fiberglass plastic; available also in acid resisting enameled iron (Model 10X).

HAWS DRINKING FAUCET COMPANY

1441 FOURTH STREET • BERKELEY 10, CALIFORNIA

LATHING AND PLASTERING

INFORMATION

Sponsored by the following Cooperative Groups

GOLDEN GATE LATHING AND PLASTERING INSTITUTE
850 S. Van Ness Avenue, San Francisco 10, ATwater 2-8220. Servicing San Francisco County.

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street, Oakland 12, GLencourt 2-0313. Servicing Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue, San Carlos, LYtell 3-2634. Servicing San Mateo and Santa Clara Counties.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16, GLadstone 1-1879. Servicing Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

WHAT'S NEW IN PLASTERING

By ROBERT E. SCOTT
Field Representative
Lathing and Plastering Institute
of Northern California

Have you taken a careful look at the Lathing and Plastering Industry lately? It might be of value to look over what this building craft has accomplished in the past few years. There is a well known quotation that reads "As a Man Thinketh, So Is He." This thought can serve for an industry as well. You are capable of accomplishing what you think you can accomplish.

The Plastering Industry has been known as the basic hand-tool industry for years, despite the well known machine age that we now enjoy. So, in reference to the above-mentioned quotation, a few advanced plasterers started planning, although the average consensus of opinion was that it could not be done. However, in the face of pessimistic opinions, this industry patterned its course after the bumblebee, of whom "Aero-Dynamics" said that its wings were too short and beat too rapidly to sustain him in flight. The bumblebee, unable to understand this pessimistic theory, goes ahead and flies anyhow. Hence, the aforementioned example. The Plastering Industry has undergone a complete revolution and is now modern and mechanized.

Power-driven machines are now making industry work more competitive, producing a higher quality of work and providing ease of operation. In less than five years, the number of electrically-powered machines used by this industry has exceeded the gasoline units. Today, plaster pumps with synchronized compressed air can pump materials as high as 300 feet and apply the same to ceilings and walls.

Also, in the field of mechanization, and becoming more and more frequently used, are the power-troweling machines which produce a much harder, smoother and more dense finished surface. Popular in the field of mechanized lathing are clip systems, power shears, drills, chippers and stapling machines, to name but a few. These quality machine jobs are creating a demand for more and more genuine lath and plaster.

This mechanization has completely revolutionized the Plastering Industry which once again enjoys the high standards of a skilled craft and stands in the front ranks of our modern building industry.

HERRICK
IRON WORKS

STRUCTURAL STEEL • REINFORCING

STEEL • PRISON EQUIPMENT

PRELOAD PRESTRESSING

BOX 307, HAYWARD, CALIF.
Phone LU 1-4451

HAAS and HAYNIE
Formerly Haas Construction Company
Since 1898

275 PINE ST.

SAN FRANCISCO, CALIF.

Phone DOuglas 2-0678

BOOK REVIEWS
PAMPHLETS AND CATALOGUES

CONSTRUCTION ACCOUNTING AND FINANCIAL MANAGEMENT. By William E. Coombs. F. W. Dodge Corp., 119 W. 40th St., New York 18, N. Y. 490 pages, Illus. $12.85.

First book ever written on this vital phase of the construction industry. Author is attorney and certified public accountant, and in this book describes and specifically recommends proper accounting and management procedures; tells what records to keep, and why; relates accounting and record keeping to the size of firm, the type of work being done, and never loses sight of the fundamental purpose—to give effective financial control over every operation.

The book recognizes the fact that the construction industry is unique; jobs range from dollars to millions, small to large number of employees, local or international in scope, and author discusses in detail the special knowledge and techniques required to insure good control.

HERE OF ALL PLACES. By Osbert Lancaster. Houghton Mifflin Co., 2 Park St., Boston. Illustrated, 189 pages. Price $4.00.

The satiric pen of the author, England's best known politico-social cartoonist, here sets forth Western man's record as a builder of homes. Anyone who lives beneath a roof will find this a beguiling book, and as a pictorial history of domestic architecture it is a swift and accurate guide executed with a verve and humor assuring hours of entertainment.

In a series of wittily drawn tableaux, each with its own trenchant comments, the author shows what happened to the home from the large smoke-filled rooms of the Normans through the extraordinary excessances of the Victorians and followers of Art Nouveau to the present geometric variations on the Bauhaus. It is an evolution that would make Darwin's head swim.

GROUNDS MAINTENANCE HANDBOOK (Second Edition). By H. S. Conover. F. W. Dodge Corp., 119 W. 40th St., New York 18, N. Y. Illustrated, 501 pages. Price $10.75.

This comprehensive volume is the only book ever published with complete information on the maintenance of public, semi-public, industrial, and private grounds. Anyone responsible for developing and maintaining grounds will find this new work the most valuable reference at his disposal. Ten large chapters treat every important aspect of grounds maintenance, including: Planning, Scheduling, and Public Relations; Growing and Maintenance of Turf; Planting and Care of Trees, Shrubs and Perennials; Equipment Maintenance and Use; Insect and Disease Control; Weeds; Soil Erosion; Maintenance of Picnic Areas. This book is of particular interest to park and highway personnel, landscape architects, contractors, civil engineers, nurserymen and those responsible for grounds.

NEW CATALOGUES AVAILABLE

Architects, Engineers, Contractors, Planning Commission members—the catalogues, folders, new building products material, etc., described below may be obtained by directing your request to the name and address given in each item.

Large diameter clay pipe. Complete line of large diameter clay pipe and fittings is described in a completely illustrated, 4-page folder; file size, also describes fittings and time-saving factory-made joints. Free copy, write DEPT-A&E, Robinson Clay Products Co., 65 W. State St., Akron 9, Ohio.

Modular panel wall construction. New 6-page folder, in color, entitled "Selected Details: School Plant Designs" is a study of architects' solutions to typical structural requirements of school buildings; types of buildings using Armco Drainage & Metal Products modular panel wall construction include gymnasium-auditorium combinations; classroom structures; elementary school gymnasiums; portable classrooms; and a school bus garage; details and specifications. Copy free, write DEPT-A&E, Armco Drainage & Metal Products, Inc., Middletown, Ohio.

Sliding glass doors. New 8-page catalog (A.I.A. File No. 16-E) in 3 colors, gives complete information on two aluminum lines of Miller sliding glass doors; unique feature is ½ size detail sheet which is perforated to permit easy removal for architectural tracing, and which contains suggested specifying data to save time and space in specifications writing; many

Western Distributors
Herring-Hall Marvine Safe Company,
Hamilton, O.

DESIGNERS • MANUFACTURERS

SAFES • VAULTS

MONEY CHESTS

FEDERAL BURGLAR ALARMS

THE HERMANN SAFE CO.

1699 Market St. San Francisco 3

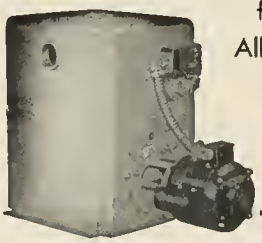
Tel.: UNderhill 1-6644

"AMERICAN-MARSH"

CONDENSATION UNIT

Durable — Economical
Stocked Locally
Please contact us
for information on
All Pumping Problems.

— CALL —



SIMONDS FOR PUMPS

Simonds Machinery Co.

Douglas 2-6794

816 FOLSOM ST. SAN FRANCISCO

The Most Complete Line of
STEELS and STEEL BUILDING MATERIALS
Made by a Single Producer

REPUBLIC STEEL

See Sweet's Catalog File or write us for full information.

REPUBLIC STEEL CORPORATION
GENERAL OFFICES: CLEVELAND, OHIO

DENVER, COLORADO . . . . CONTINENTAL OIL BUILDING
LOS ANGELES, CALIF. . . . GENERAL PETROLEUM BUILDING
SAN FRANCISCO, CALIFORNIA . . . . RIALTO BUILDING
SEATTLE, WASH. . . . . WHITE-HENRY-STUART BUILDING

VERMONT MARBLE COMPANY

Domestic and Imported Marbles
Granite Veneer

•

VER-MYEN Serpentine for
Laboratory Equipment

•

6000 Third Street • San Francisco 24
Phone: VAlencia 6-5024

3522 Council Street • Los Angeles 4
Phone: DUnkirk 2-6339

photographs; stock and custom sizes. Free copy, write DEPT-A&E, Miller Sliding Glass Door Co., 3216 Valhalla Drive, Burbank, Calif.

Liquid foils. New 8-page booklet (A.I.A. File No. 12) describes liquid foils for protective coating, waterproofing, and as moisture-vapor seal on concrete floors, walls, roofs and other structural surfaces; specifications and application data, references and applicable Federal specifications. Free copy, write DEPT-A&E, Grems Mfg., Co., Klamath Falls, Oregon.

Architectural wall coverings. Brochure describes in detail the Guard coordinated system of architectural wall coverings; illustrates method for keeping at your fingertips a complete coordinated system of architectural wall coverings. Free copy, write DEPT-A&E, A. U. Morse & Co., 53 Page St., San Francisco, California.

Maximum visual comfort. New brochure illustrates and describes lighting installations which assure a maximum in visual comfort; equipment description and appropriate installations. Free copy, write DEPT-A&E, Sunbeam Lighting Company, 777 E. 14th Place, Los Angeles 21, California.

Sandwich panel skylights. Brochure in color (A.I.A. File No. 12-J) gives technical details on lightweight sandwich construction employing tensile face materials and comprehensive cores; photographs of installations; design details; drawings; specifications and physical properties. Free copy, write DEPT-A&E, Architectural Plastics Corp., 1355 River Road, Eugene, Oregon.

How to select a boiler. New 20-page guide specially written for architects, is complete with over 30 illustrations and graphs and is published in a 5" by 7¼" format; covers such topics as "First Cost," "How to Solve the Low-Head Room Problem," the "Packaged Boiler vs. Built-up Boiler," "Boiler Design Standards," "Burner Efficiency" and many other subjects. Free copy write DEPT-A&E, Cleaver-Brooks Co., 326 East Keefe Avenue, Milwaukee 12, Wis.

Office accessories. New 2-color catalog of 1959 line of office accessories; includes new formed plastic convenience trays, wastebaskets and letter trays, chair mats, desk tops and office and industrial signs, in plastics. Free copy write DEPT-A&E, Delta Products, Division of Air Accessories, Inc., P. O. Box 1440, Ft. Worth, Texas.

Custom kitchens—in the Mutschler manner. New brochure features the Chambers Built-ins that create matching harmony and have a beauty of design and color; illustrated to show many types of installations and uses of the Mutschler Kitchens and Chambers Built-ins. Free copies write DEPT-A&E, Mutschler Kitchens of California, 635 Texas Street, San Francisco 7.

Heavy duty space heaters. New 8-page bulletin gives complete engineering data on redesigned line of heavy duty space heaters now in production; complete construction details and specification data on ten models for gas, oil or gas-oil firing ranging in capacity from 400,000 to 2,000,000 Btu/hr output; data on dimensions for up-flow, down-flow and horizontal installation, lists of control elements with step-by-step description of operating sequence, air throw figures for various louver arrangements and details on burner assembly. Write DEPT-A&E, Reznor Mfg. Co., Mercer, Pa., for free copy.

ARCHITECTS & ENGINEERS...

THE SUPPLIERS QUANTITY SURVEY SERVICE—a new LeRoy service—furnishes quantity surveys to suppliers of construction products that enable them to submit bids on your projects WITHOUT the need of your plans.

This valuable service reduces estimating expenses of suppliers, increases their bidding facilities, and reduces the number—and cost—of your plans needed by suppliers.

Help promote these benefits by letting us have an early set of plans for each of your projects.

We need your plans only a couple of days, then promptly returned.

LeROY CONSTRUCTION SERVICES
768 BRANNAN • SAN FRANCISCO, 3 • UNderhill 1-2483

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY LeROY CONSTRUCTION SERVICES. 4% SALES TAX ON ALL MATERIALS BUT NOT LABOR. ITEMS IN ITALIC INCLUDE LABOR AND SALES TAX.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor and Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK & MASONRY

COMMON BRICKWORK, Reinforced:		
8" walls	SF	*2.95*
12" walls	SF	*4.15*
SELECT COMMON, Reioforced:		
8" walls	SF	*3.05*
12" walls	SF	*4.30*
CONCRETE BLOCK, Reinforced:		
6" walls	SF	*1.40*
8" walls	SF	*1.55*
12" walls	SF	*1.90*
BRICK VENEER:		
4" Select Common	SF	*1.65*
4" Roman	SF	*2.50*
4" Norman	SF	*2.40*
4" Aggrelite	SF	*2.40*

BRICKWORK & MASONRY

All Prices—F.O.B. Plant.

COMMON BRICK		
Common 2½ x 3¾ x 8¼	M	45.00
Select 2½ x 3¾ x 8¼	M	52.00
Clinker 2½ x 3¾ x 8¼	M	48.00
Jumbo 3½ x 3 x 11½	M	90.00
FACE BRICK		
Standard	M	59.80 - 83.20
Jumbo	M	114.40 - 130.00
Roman	M	88.40 - 109.20
Norman	M	101.40 - 124.80
Brik Blox (6")	M	202.80
(8")	M	239.20
Braile Veneer	M	26.00
BUILDING TILE		
8 x 5½ x 12 inches	M	165.78
6 x 5½ x 12 inches	M	128.96
HOLLOW TILE		
12 x 12 x 3 inches	M	163.12
12 x 12 x 4 inches	M	184.18
12 x 12 x 6 inches	M	244.71
MANTEL FIRE BRICK		
2½ x 9½ x 4½ inches	M	140.40
GLAZED STRUCTURAL UNITS		
2 x 6 x 12 Furring	SF	.90
4 x 6 x 12 Furring	SF	1.20
6 x 6 x 12 Furring	SF	1.50
4 x 6 x 12 Partition	SF	1.60
Add for color	SF	.20
CONCRETE BLOCKS		
4 x 8 x 16 inches	EA	.22
6 x 8 x 16 inches	EA	.265
8 x 8 x 16 inches	EA	.30
12 x 8 x 16 inches	EA	.435
Colored Add	EA	.02
AGGREGATE—Haydite or Basalite		
All sizes in bulk	CY	6.24

BUILDING PAPERS & FELTS

1 ply per 1000 ft. roll	3.95
2 ply per 1000 ft. roll	6.03
3 ply per 1000 ft. roll	8.22
Sisalkraft, reinf. 500 ft. roll	7.54
SHEATHING PAPERS:	
Asphalt sheathing, 15-lb. roll	2.40
30-lb. roll	3.37
Dampcourse, 216-ft. roll	3.05
FELT PAPERS:	
Deadening felt, ¾ lb., 50 ft. roll	3.94
Deadening felt, 1 lb., 50 ft. roll	4.60
Asphalt roofing, 15-lb.	2.50
30-lb.	3.50
ROOFING PAPERS:	
Standard Grade, Smooth Surface	
108 ft. roll, Light, 45 lb.	2.26
Medium 55 lb.	2.64
Heavy 65 lb.	3.10
Mineral Surfaced	3.60

CHIMNEYS, PATENT

F.O.B. Warehouse

6"	LF	1.45
8"	LF	2.05
10"	LF	2.85
12"	LP	3.45

Rates for 10 - 50 Lin. Ft.

CONCRETE AGGREGATES

	Bunker Per Ton	Del'd Per Ton
Gravel, All Sizes	3.25	4.00
Top Sand	3.45	4.20
Concrete Mix	3.35	4.20
Crushed Rock		
¼" to ¾"	3.30	4.20
¾" to 1½"	3.30	4.20
Roofing Gravel	3.46	4.15
SAND		
Lapis (Nos. 1 & 2)	4.30	5.10
Olympia (Nos. 1 & 2)	3.60	4.15
CEMENT		
Common, All brands (Paper sacks)		
Small quantities,	Per Sack	1.35
Large quantities,	Per bbl.	4.25
Trinity White & Mendusa White	Per Sack	4.00
CONCRETE MIX		
6 sacks in 5-yd. loads	Per yard	13.40
CURING COMPOUND, Clear		
5 gal drums	Per Gal.	1.46

CARPENTRY & MILLWORK

Hardware not included

FRAMING:		
Floors	BM	*.20 - .25*
Walls	BM	*.25 - .30*
Ceilings	BM	*.18 - .22*
Roofs	BM	*.22 - .27*
Furring & Blocking	BM	*.30 - .50*
SHEATHING:		
1 x 8 straight	BM	*.20 - .25*
1 x 8 diagonal	BM	*.23 - .28*
5/16" Plyscore	SF	*.16 - .20*
⅜" Plywood	SF	*.25 - .30*
SIDING:		
1 x 8 Bevel	BM	*.35 - .40*
1 x 4 V-Rustic	BM	*.40 - .45*
EXTERIOR TRIM:		
Fascia and Molds	BM	*.40 - .50*
Bolted Framing—Add 50%		
ENTRANCE DOORS & FRAMES:		
Singles		*60.00 & Up*
Doublet		*100.00 & Up*
INTERIOR DOORS & FRAMES:		
Singles		*35.00 & Up*
Pocket Sliding		*45.00 & Up*
Closet Sliding (Pr.)		*30.00 & Up*
WINDOWS:		
D/H Sash & Frames	SF	*1.75 & Up*
Casement Sash & Frames	SF	*1.90 & Up*
SHELVING:		
1 x 12 S4S	BM	*.30 - .50*
¾" Plywood	SF	*.40 - .60*
STAIRS:		
Oak steps D.F. Risers		
Under 36" wide	Riser	*12.00*
Under 60" wide	Riser	*17.00*
Newel posts and rail extra		
WOOD CASES & CABINETS:		
D.F. Wall Hung	LF	*13.00 - 18.00*
D.F. Counters	LF	*15.00 - 20.00*

DAMPPROOFING & WATERPROOFING

MEMBRANE:		
1 layer 50 lb. felt	SQ.	*9.00*
4 layers Dampcourse	SQ.	*13.00*
Hot coat walls	SQ.	*6.00*
Tricoal added to concrete	CY	*1.00*
Anti-Hydro added to concrete	CY	*1.50*

ELECTRIC WIRING

Per Outlet:

Knob & Tube	EA	*9.00*
Armor	EA	*16.00*
Conduit	EA	*20.00*
110 V Circuit	EA	*25.00*
220 V Circuit	EA	*95.00*

ELEVATORS & ESCALATORS

Prices vary according to capacity, speed and type. Consult Elevator Companies.

Slow speed apartment house elevator including doors and trim, about $5000.00 per floor.

EXCAVATION

MACHINE WORK in common ground:		
Large Basements	CY	*.75 - 1.00*
Small Pits	CY	*1.25 - 1.75*
Trenches	CY	*1.50 - 2.25*
HAND WORK in common ground		
Large pits and trenches	CY	*4.50 - 5.50*
Small pits and trimming	CY	*5.00 - 6.50*

Hard Clay & Shale 2 times above rates.
Rock and large boulders 4-6 times above rates.
Shoring, bracing and disposal of water not included.

FLOORS

⅛" Asp. tile, dark colors	SF	*.25 - .30*
⅛" Asp. tile, light colors	SF	*.30 - .35*
⅛" Rubber tile	SF	*.60 - .70*
.080 Vinyl Asbestos Tile	SF	.40 - .45
.080 Vinyl Tile	SF	.85 - .95
Lino, Standard Gauge	SY	*3.75 - 4.25*
Lino, Battleship	SY	*5.25 - 5.75*
4" Rubber Base, Black	LF	*.35 - .40*
Rubber Stair Nosing	LF	*1.00 - 1.75*

Above rates based on quantities of 1000 - 5000 SF per job.

HARDWOOD FLOORS

Select Oak, filled, sanded, stained and varnished:		
5/16" x 2¼" strip	SF	*.45 - .50*
5/16" Random Plank	SF	*.50 - .55*
25/32" x 2¼" T&G	SF	*.70 - .80*
Maple, 2nd Grade and Better, filled, sanded, stained and varnished:		
25/32" x 2¼" T&G	SF	*.80 - .95*
Wax Finish, add	SF	*.10*

HARDWOOD FLOORING

Oak 5/16" x 2" Strip—		
Clear	M	229.00
Select	M	218.00
#1 Common	M	203.00
Oak 5/16" Random Plank—		
Select & Btr.	M	286.00
#1 Common	M	244.00
Oak 25/32" x 2¼" T&G—		
Select	M	260.00
#1 Common	M	203.00
Maple 25/32" x 2¼" T&G—		
#1 Grade	M	317.00
#2 Grade	M	281.00
#3 Grade	M	208.00
Nails—1" Floor Brads	KEG	17.20

GLASS & GLAZING

S.S.B. Clear	SF	.48
D.S.B. Clear	SF	.78
Crystal	SF	.92
¼" Plate	SF	*2.17*
⅛" Obscure	SF	.68
⅛" Heat Absorbing	SF	*1.12*
¼" Tempered Plate	SF	*4.38*
½" Tempered Plate	SF	*7.84*
¼" Wire Plate, Clear	SF	*3.65*
¼" Wire Plate, Rough	SF	*1.08*

GLASS—CUT TO SIZE

F.O.B. Warehouse

S.S.B. Clear, Av. 6 SF	SF	.34
D.S.B. Clear, Av. 10 SF	SF	.56
Crystal, Av. 35-SF	SF	.65
¼" Polished Plate, Av. 100 SF	SF	1.55
⅛" Obscure, Av. 10 SF	SF	.49
⅛" Ribbed, Av. 10 SF	SF	.49
⅛" Rough, Av. 10 SF	SF	.49
¼" Wire Plate, Clear, Av. 40 SF	SF	2.61
¼" Wire Plate, Rough, Av. 40 SF	SF	.77
⅛" Heat Absorbing, Av. 10 SF	SF	.80
¼" Tempered Plate, Av. 50 SF	SF	3.60
½" Tempered Plate, Av. 50 SF	SF	6.88
Glazing—Approx. 40-50% of Glass		
Glass Blocks—		
6"		.57
8"		.92
12"		2.39

HEATING

FURNACES—Gas Fired—Av. Job:		
FLOOR FURNACE:		
25,000 BTU		*100.00 - 125.00*
35,000 BTU		*107.00 - 135.00*
45,000 BTU		*115.00 - 150.00*
AUTOMATIC CONTROL:		
Add		*25.00 - 35.00*

HEATING—Cont'd

DUAL WALL FURNACE:
- *25,000 BTU* ..... *110.00 - 125.00*
- *35,000 BTU* ..... *125.00 - 145.00*
- *50,000 BTU* ..... *150.00 - 180.00*

AUTOMATIC CONTROL:
- *Add* ..... *25.00 - 35.00*

GRAVITY FURNACE:
- *75,000 BTU* ..... *375.00 - 450.00*
- *85,000 BTU* ..... *425.00 - 525.00*
- *95,000 BTU* ..... *475.00 - 600.00*

FORCED AIR FURNACE:
- *Add* ..... *75.00 - 125.00*

AUTOMATIC CONTROL:
- *Add* ..... *15.00 - 25.00*

HEAT REGISTERS:
- *Outlet* ..... *7.50 - 15.00*

INSULATION & WALLBOARD

F.O.B. Warehouse

ROCKWOOL Insulation—		
2" Semi-thick	Per M SF	60.60
3⅜" Full Thick	Per M SF	77.40
COTTON Insulation		
1" Full Thick	Per M SF	43.26
SOFTBOARDS—Wood Fiber—		
½" thick	Per M SF	84.00
1½" thick	Per M SF	275.00
2" thick	Per M SF	385.00
ALUMINUM Insulation—		
80# Kraft paper with alum. foil		
1 side only	Per M SF	18.30
2 sides	Per M SF	31.00
GYPSUM Wallboard—		
⅜" thick	Per M SF	49.50
½" thick	Per M SF	54.50
⅝" thick	Per M SF	83.00
⅝" Gyplap	Per M SF	85.00
HARDBOARDS—Wood Fiber—		
⅛" thick, Sheathing	Per M SF	84.00
⅛" thick, Sheathing	Per M SF	90.48
¼" thick, Sheathing	Per M SF	109.20
⅛" thick, Tempered	Per M SF	108.00
⅛" thick, Tempered	Per M SF	186.00
¼" thick, Tempered	Per M SF	194.48
CEMENT Asbestos Board—		
⅛" C.A.B. Flat Sheets	Per M SF	151.20
⅛" C.A.B. Flat Sheets	Per M SF	208.80
¼" C.A.B. Flat Sheets	Per M SF	270.01

LATH & PLASTER

Diamond 3.40 copper bearing	SY	.56
Ribbed 3.40 copper bearing	SY	.62
⅜" rock lath	SY	.36
1½" Standard Channel	LF	.062
¾" Standard Channel	LF	.045
3¼" steel studs	LF	.092
4" steel studs	LF	.107
Stud shoes	EA	.028
Hardwall, Browning	Sack	1.45
Hardwall, Finish	Sack	1.70
Stucco	Sack	2.50

LATH & PLASTERWORK

CHANNEL FURRING:		
Suspended Ceilings	*SY*	*2.20 - 2.50*
Walls	*SY*	*2.30 - 2.60*
METAL STUD PARTITIONS:		
3¼" Studs	*SY*	*1.70 - 2.00*
4" Studs	*SY*	*1.95 - 2.25*
Over 10'0 high, add	*SY*	*.20 - .30*
3.40 METAL LATH AND PLASTER:		
Ceilings	*SY*	*3.60 - 4.00*
Walls	*SY*	*3.75 - 4.15*
KEENE'S CEMENT FINISH:		
Add	*SY*	*.40 - .60*
ROCK LATH & PLASTER:		
Ceilings	*SY*	*2.50 - 2.80*
Walls	*SY*	*2.60 - 2.90*
WIRE MESH AND ⅞" STUCCO:		
Walls	*SY*	*3.60 - 4.10*
STUCCO ON CONCRETE:		
Walls	*SY*	*2.30 - 2.80*
METAL ACCESSORIES	LF	.20 - .50

LINOLEUM

Lino. Standard Gauge	SY	2.65 - 2.85
Lino. Battleship	SY	2.95 - 3.11
⅛" Asp. tile, Dark	SF	.10 - .11
⅛" Asp. tile, Light	SF	.14 - .16
⅛" Rubber Tile	SF	.40 - .44
.080 Vinyl tile	SF	.20 - .21
.080 Vinyl Asb. tile	SF	.18 - .19
⅛" Vinyl tile	SF	.78 - .82
4" Base, Dark	LF	.15 - .16
4" Base, Light	LF	.24 - .26
Rubber Nosing	LF	.60 - 1.30
Lino Paste	GAL	.75 - .90

Above rates based on quantities of 1000-5000 SF per job.

LUMBER

	M.B.M.
DOUGLAS FIR:	
#1 2x4—2x10	88.00 - 92.00
#2 2x4—2x10	85.00 - 90.00
#3 2x4—2x10	68.00 - 74.00
#4 2x4—2x10	64.00 - 72.00
Clear, Air Dried	180.00 - 210.00
Clear, Kiln Dried	210.00 - 240.00
REDWOOD:	
Foundation Grade	120.00 - 130.00
Construction Heart	110.00 - 120.00
A Grade	180.00 - 210.00
Clear Heart	190.00 - 220.00
D.F. PLYWOOD	M.S.F.
¼" AB	95.00 - 105.00
¼" AD	90.00 - 95.00
¼" Ext. Waterproof	115.00 - 125.00
⅜" AB	130.00 - 145.00
⅜" AD	115.00 - 125.00
⅜" CD	70.00 - 85.00
½" AB	170.00 - 185.00
½" AD	110.00 - 115.00
½" CD	..... - .....
⅝" AB	185.00 - 200.00
⅝" AD	165.00 - 180.00
⅝" CD	115.00 - 125.00
¾" AB	210.00 - 230.00
¾" AD	195.00 - 210.00
¾" CD	125.00 - 140.00
⅝" Plyform	160.00 - 170.00
SHINGLES:	Square
Cedar #1	14.00 - 15.50
Cedar #2	11.50 - 12.50
SHAKES:	
CEDAR	
½ to ¾" Butt	17.50 - 18.50
¾ to 1¼" Butt	18.50 - 19.50
REDWOOD	
¾ to 1¼" Butt	21.00 - 24.00

MILLWORK

All Prices F.O.B. Mill

D.F. CLEAR, AIR DRIED:		
S4S	MBM	220.00 - 250.00
D.F. CLEAR, KILN DRIED:		
S4S	MBM	225.00 - 275.00
DOOR FRAMES & TRIM:		
Residential Entrance		17.00 & up
Interior Room Entrance		7.50 & up
DOORS:		
1⅜" D.F. Slab, Hollow Core		8.00 & up
1¾" D.F. Slab, Solid Core		19.00 & up
1⅜" Birch Slab, Hollow Core		10.00 & up
1¾" Birch Slab, Solid Core		22.00 & up
WINDOW FRAMES:		
D/H Singles	SF	.80
Casement Singles	SF	.90
WOOD SASH:		
D/H in pairs (1 lite)	SF	.45
Casement (1 lite)	SF	.50
WOOD CABINETS:		
¾" D.F. Ply with ¼" ply backs		
Wall Hung	LF	10.00 - 15.00
Counter	LF	12.00 - 17.00
BIRCH OR MAPLE—Add 25%		

PAINT

All Prices F.O.B. Warehouse

Thinners—5-100 gals.	GAL.	.57
Turpentine—5-100 gals.	GAL.	1.58
Linseed Oil, Raw	GAL.	2.51
Linseed Oil, Boiled	GAL.	2.57
Primer-Sealer	GAL.	3.10
Enamel	GAL.	5.45
Enamel Undercoaters	GAL.	5.45
White Lead in Oil	LB.	.35
Red Lead in Oil	LB.	.35
Litharge	LB.	.30

PAINTING

EXTERIOR:		
Stucco Wash 1 ct.	*SY*	*.30*
Stucco Wash 2 cts.	*SY*	*.55*
Lead and Oil 2 cts.	*SY*	*.90*
Lead and Oil 3 cts.	*SY*	*1.30*
INTERIOR:		
Primer Sealer	*SY*	*.40*
Wall Paint, 1 ct.	*SY*	*.50*
Wall Paint, 2 cts.	*SY*	*.95*
Enamel, 1 ct.	*SY*	*.60*
Enamel, 2 cts.	*SY*	*1.10*
Doors and Trim	*EA*	*10.00*
Sash and Trim	*EA*	*12.00*
Base and Molds	*LF*	*.12*

Old Work—Add 15-30%

PLUMBING

Lavatories	*EA*	*100.00 - 150.00*
Toilets	*EA*	*200.00 - 300.00*
Bath Tubs	*EA*	*250.00 - 350.00*
Stall Shower	*EA*	*80.00 - 150.00*
Sinks	*EA*	*125.00 - 175.00*
Laundry Trays	*EA*	*80.00 - 130.00*
Water Heaters	*EA*	*100.00 - 300.00*

Prices based on average residential and commercial work. Special fixtures and excessive piping not included.

ROOFING

STANDARD TAR & GRAVEL	Per Square
4 ply	*14.00 - 18.00*
5 ply	*17.00 - 20.00*
White Gravel Finish—Add	*2.00 - 4.00*
Asph. Compo. Shingles	*16.00 - 20.00*
Cedar Shingles	*20.00 - 24.00*
Cedar Shakes	*26.00 - 30.00*
Redwood Shakes	*28.00 - 34.00*
Clay Tiles	*40.00 - 50.00*

SEWER PIPE

VITRIFIED:		
Standard 4 in.	LF	.31
Standard 6 in.	LF	.56
Standard 8 in.	LF	.81
Standard 12 in.	LF	1.76
Standard 24 in.	LF	6.95
CLAY DRAIN PIPE:		
Standard 6 in.	LF	.34
Standard 8 in.	LF	.59

Rate for 100 Lin. Ft. F.O.B. Warehouse

STEEL

REINFORCING BARS:		
¼" rounds	LB	.122
⅜" rounds	LB	.111
½" rounds	LB	.107
⅝" rounds	LB	.104
¾" rounds	LB	.102
⅞" rounds	LB	.102
1" rounds	LB	.102
REINFORCING MESH (1050 SF Rolls)		
6x6 x 10x10	SF	.035
6x6 x 6x6	SF	.067
16 GA. TYING WIRE	LB	.130

Rates 100-1000 Lbs. F.O.B. Warehouse

STRUCTURAL STEEL

$325.00 and up per ton erected when out of mill.
$350.00 and up per ton erected when out of stock.

SHEET METAL

ROOF FLASHINGS:		
18 ga. Galv. Steel	*SF*	*.60 - 1.00*
22 ga. Galv. Steel	*SF*	*.50 - .90*
26 ga. Galv. Steel	*SF*	*.40 - .80*
18 ga. Aluminum	*SF*	*1.00 - 1.50*
22 ga. Aluminum	*SF*	*.80 - 1.30*
26 ga. Aluminum	*SF*	*.60 - 1.10*
24 oz. Copper	*SF*	*1.90 - 2.40*
20 oz. Copper	*SF*	*1.70 - 2.20*
16 oz. Copper	*SF*	*1.50 - 2.00*
26 ga. Galv. Steel		
4" o.g. gutter	*LF*	*.90 - 1.30*
Mitres and Drops	*EA*	*2.00 - 4.00*
22 ga. Galv. Louvres	*SF*	*2.50 - 3.50*
20 oz. Copper Louvres	*SF*	*3.00 - 4.50*

TILE WORK

CERAMIC TILE, Stock colors:		
Floors	*SF*	*1.95 - 2.45*
Walls	*SF*	*2.05 - 2.55*
Coved Base	*LF*	*1.05 - 1.45*
QUARRY TILE:		
6" x 6" x ½" Floors	*SF*	*1.60 - 2.00*
9" x 9" x ¾" Floors	*SF*	*1.75 - 2.15*
Treads and risers	*LF*	*3.00 - 4.50*
Coved Base	*LF*	*.90 - 1.30*

Mosaic Tile — Rates vary with design and colors. Each job should be priced from Manufacturer.

TERRAZZO & MARBLE

Terrazzo Floors	*SF*	*2.00 - 2.50*
Cond. Terr. Floors	*SF*	*2.20 - 2.75*
Precast treads and risers	*LF*	*3.50 - 4.50*
Precast landing slabs	*SF*	*3.00 - 4.00*

TILE

CERAMIC:

F.O.B. Warehouse

4¼" x 4¼" glazed	SF	.69
4¼" x 4¼" hard glazed	SF	.72
Random unglazed	SF	.73
6" x 2" cap	EA	.17
6" coved base	EA	.22
¼" round bead	LF	.18
QUARRY:		
6 x 6 x ½" Red	SF	.49
6 x 6 x ¾" Red	SF	.52
9 x 9 x ¾" Red	SF	.60
6 x 6" coved base	EA	.21
White Cement Grout	Per 100 Lbs.	6.25

VENETIAN BLINDS

Residential	SF	.40 & Up
Commercial	SF	.45 & Up

WINDOWS

STEEL SASH:		
Under 10 SF	SF	2.50 & Up
Under 15 SF	SF	2.00 & Up
Under 20 SF	SF	1.50 & Up
Under 30 SF	SF	1.00 & Up
ALUMINUM SASH:		
Under 10 SF	SF	2.75 & Up
Under 15 SF	SF	2.25 & Up
Under 20 SF	SF	1.75 & Up
Under 30 SF	SF	1.25 & Up

Above rates are for standard sections and stock sizes F.O.B. Warehouse

CONSTRUCTION INDUSTRY WAGE RATES

Table 1. The rates are the union hourly wage rates established by collective bargaining as of January 2, 1959, as reported by reliable sources.

TABLE 1—UNION HOURLY WAGE RATES, CONSTRUCTION INDUSTRY, CALIFORNIA

Following are the hourly rates of compensation established by collective bargaining, reported as of January 2, 1959 or later

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKER	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85
BOILERMAKER	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675
BRICKLAYER	3.95	3.75	3.75	3.75	3.80	3.75	3.875	3.95	3.80	3.90	3.75	3.80	3.85
BRICKLAYER HODCARRIER	3.15	3.15	3.15	2.90	3.10	2.90	3.00	3.10	2.75	2.75	2.75	2.75	2.75
CARPENTER	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
CEMENT MASON	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.40	3.40	3.40	3.40	3.15
ELECTRICIAN	4.061	4.061	4.061		4.061	3.50	4.16	3.666[A]	3.90	4.15	4.05	3.90	3.70
GLAZIER	3.215	3.215	3.215	3.215	3.215	3.215	3.24	3.215	3.135	3.135	3.135	3.135	3.135
IRON WORKER													
ORNAMENTAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
REINFORCING	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
STRUCTURAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
LABORER, GENERAL OR CONSTRUCTION	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685
LATHER	3.4375	3.84	3.84	3.45	3.60[B]	3.40[C]	3.60[D]	3.50[E]	3.9375		3.725	3.625[F]	
OPERATING ENGINEER													
Concrete mixer (up to 1 yard)	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Concrete mixer operator—Skip Type	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.17	3.17	3.17	3.17	3.17
Elevator Hoist Operator									3.19	3.19	3.19	3.19	3.19
Material Hoist (1 drum)	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19					
Tractor Operator	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.71	3.71	3.71	3.71	3.71
PAINTER													
Brush	3.20	3.25	3.20	3.13	3.325	3.175	3.35	3.20	3.36	3.25	3.19	3.25	3.10
Spray	3.20	3.60	3.20	3.38	3.575	3.325	3.60	3.20	3.61	3.50	3.74	3.80	3.35
PILEDRIVERMAN	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505
PLASTERER	3.69	3.545	3.545	3.35	3.60[B]	3.55[C]	3.58	3.50	4.00	4.00	3.725	3.9375	
PLASTERER HODCARRIER	3.25	3.42	3.42	3.10	3.10	3.00[C]	3.20	3.15	3.6875	3.5625	3.475	3.50	3.6875
PLUMBER	3.67		3.935[I]	3.80[J]	3.925	3.80[J]	3.85	3.80	3.80	3.80	3.80	3.80	3.80
ROOFER	3.35	3.35	3.35	3.20	3.25	3.35	3.60	3.10[K]	3.35	3.25	3.10	3.30	3.775
SHEET METAL WORKER	3.675	3.675	3.675	3.675	3.675	3.685	3.675	3.685	3.70	3.70	3.65	3.65	3.10
STEAMFITTER	3.67	3.96	3.96	3.80[J]	3.70	3.80[J]	3.60	3.675	3.80	3.80	3.80	3.80	3.775
TRUCK DRIVER—Dump Trucks under 4 yards	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.83	2.83	2.83	2.83	2.83
TILE SETTER	3.30	3.30	3.30	3.30	3.30	3.30	3.50	3.30	3.70	3.60	3.60	3.60	

[A] Includes 4% vacation allowance.

[B] Includes 5c hour for industry promotion and 5c hour for vacation fund.

[C] ½% withheld for industry promotion.

[D] 1½c withheld for industry promotion.

[E] Includes 5c hour for industry promotion and 5c hour for vacation fund. Hourly rate for part of county adjacent to Sacramento County is $3.60.

[F] Northern part of county: $3.75.

[I] Includes 30c hour for vacation pay.

[J] Includes 15c hour which local union may elect to use for vacation purposes.

[K] Includes 10c hour for vacation fund.

[L] Includes 10c hour savings fund wage.

CONSTRUCTION INDUSTRY WAGE RATES — TABLE 2

Employer Contributions to Health and Welfare, Pension, Vacation and Other Funds
California Union Contracts, Construction Industry

(Revised March, 1957)

CRAFT	San Francisco	Fresno	Sacramento	San Joaquin	Santa Clara	Los Angeles	San Bernardino	San Diego
ASBESTOS WORKER	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W	.10 W	.10 W
BRICKLAYER	.15 W .14 P .05 hr. V		.15 W .10 P		.15 W			
BRICKLAYER HODCARRIER	.10 W .10 P .10 V	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
CARPENTER	.10 W .10 hr. V	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
CEMENT MASON	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
ELECTRICAL WORKER	.10 W 1% P 4% V	.10 W 1% P 4% V	.075 W 1% P	.075 W 1% P 4% V	1% P	1% P	1% P	.10 W 1% P
GLAZIER	.075 W .085 V	.075 W 40 hr. V	.075 W .05 V	.075 W .05 V	.075 W .085 V	.075 W 40 hr. V	.075 W 40 hr. V	.075 W 40 hr. V
IRONWORKER: REINFORCING STRUCTURAL	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W
LABORER, GENERAL	.10 W	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
LATHER	.60 day W .70 day V		.10 W	.10 W	.075 W .05 V	.90 day W	.70 day W	.10 W
OPERATING ENGINEER TRACTOR OPERATOR (MIN.) POWER SHOVEL OP. (MIN.)	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W
PAINTER, BRUSH	.095 W	.08 W	.075 W	.10 W	.095 W .07 V	.085 W	.08 W	.09 W
PLASTERER	.10 W .10 V	.10 W	.10 W	.10 W	.10 W .15 V	.10 W	.90 day W	.10 W
PLUMBER	.10 W .10 V	.15 W .10 P	.10 W .10 P .125 V	.10 W	.10 W .10 P .125 V	.10 W	.90 day W	.10 W
ROOFER	.10 W .10 V	.10 W	.10 W .10 V	.10 W	.075 W .10 V	.085 W	.10 W	.075 W
SHEET METAL WORKER	.075 W 4% V	.075 W 7 day V	.075 W .10 V	.075 W .12 V	.075 W 4% V	.085 W .10 V	.085 W .10 V	.085 W 5 day V
TILE SETTER	.075 W .09 V				.075 W .09 V	.025 W .06 V		

ATTENTION: **The above tabulation has been prepared and compiled from the available data reported by building trades councils, union locals, contractor organizations and other reliable sources. The table was prepared from incomplete data; where no employer contributions are specified, it does not necessarily mean that none are required by the union contract.**

The type of supplement is indicated by the following symbols: W—Health and Welfare; P—Pensions; V—Vacations; A—Apprentice training fund; Adm—Administration fund; JIB—Joint Industry Board; Prom—Promotion fund.

CLASSIFIED ADVERTISING

RATE: 20c PER WORD . . . CASH WITH ORDER **MINIMUM $5.00**

BUILDERS! You can make more money; get information you need before it is published elsewhere; Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

STRUCTURAL DESIGNER, MSCE, available. Experience: planning, administration, economical investigations, design, supervision, inspection, wide variety projects. Specialties: prestressed, shell, and complex structures. For resume: Box 532, Architect & Engineer.

WOOD CARVING, Furniture finishing and Design: Theodore H. Peterson, 10 California Ave., San Rafael. Phone GL 3-7335.

ARCHITECT AND PLANNER with twenty-five years' experience in U.S.A., Europe and Canada in all classes of work seeks connection in California. Own practice for nine years. Write Box 533, The Architect and Engineer Inc., 68 Post St., San Francisco.

ARCHITECTURAL AND STRUCTURAL DESIGNERS AND DRAFTSMEN NEEDED: Permanent employment, modern air conditioned office. Apply Kenny & Cullimore, 2 Niles Street, Bakersfield, California, phone FAirview 7-0256.

WRITING SERVICE — Letters, Applications, Resumes, Manuals. Editing. Ghost Writing. FILECO, 1456 Jones St., San Francisco. Tel. OR 3-6872.

INTERIOR DECORATION HOME STUDY— Announcing new home study course in Interior Decoration. For professional or personal use. Fine field for men and women. Practical basic training. Approved supervised method. Low tuition. Easy payments. Free Booklet. Chicago School of Interior Decoration, 835 Diversey Parkway, Dept. 9293, Chicago 14.

PERMANENT POSITION REQUIRED: Supervisor or foreman — Architectural Aluminum (Store Fronts) — Porcelain Enamel — Experienced ten years, Three years, Mechanical Engineering, three years Civil Engineering—Field Work. Write Box No. 534 THE ARCHITECT AND ENGINEER, INC., 68 Post St., San Francisco, Calif.

QUICK REFERENCE
ESTIMATOR'S DIRECTORY
Building and Construction Materials

ACOUSTICAL ENGINEERS
L. D. REEDER CO.
San Francisco: 1255 Sansome St., DO 2-5050
Sacramento: 3026 V St., GL 7-3505

AIR CONDITIONING
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
GILMORE AIR CONDITIONING SERVICE
San Francisco: 1617 Harrison St., UN 1-2000
KAEMPER & BARRETT
San Francisco: 233 Industrial St., JU 6-6200
LINFORD AIR & REFRIGERATION CO.
Oakland: 174-12th St., TW 3-6521
JAMES A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

ALUMINUM BLDG. PRODUCTS
MICHEL & PFEFFER IRON WORKS (Wrought Iron)
So. San Francisco: 212 Shaw Road, PLaza 5-B983
REYNOLDS METALS CO.
San Francisco: 3201 Third St., MI 7-2990
UNIVERSAL WINDOW CO.
Berkeley: 950 Parker St., TH 1-1600

ARCHITECTURAL PORCELAIN ENAMEL
CALIFORNIA METAL ENAMELING CO.
Los Angeles: 6904 E. Slauson, RA 3-6351
San Francisco: Continental Bldg. Products Co., 178 Fremont St.
Portland: Portland Wire & Iron Works, 4644 S.E. Seventeenth Ave.
Seattle: Foster-Bray Co., 2412 1st Ave. So.
Spokane: Bernhard Schafer, Inc., West 34, 2nd Ave.
Salt Lake City: S. A. Roberts & Co., 109 W. 2nd So.
Dallas: Offenhauser Co., 2201 Telephone Rd.
El Paso: Architectural Products Co., 506 E. Yandell Blvd.
Phoenix: Haskell-Thomas Co., 3808 No. Central
San Diego: Maloney Specialties, Inc., 823 W. Laurel St.
Boise: Intermountain Glass Co., 1417 Main St.

ARCHITECTURAL & AERIAL PHOTOGRAPHS
FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

ARCHITECTURAL VENEER
Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle 99: 945 Elliott Ave., West, GA 0330
Spokane: 1102 N. Monroe St., BR 3259
KRAFTILE COMPANY
Niles, Calif., Niles 3611

Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601, Franklin Building
Pasadena 8: P. O. Box 186, East Pasadena Station

Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

BANKS - FINANCING
CROCKER-ANGLO NATIONAL BANK
San Francisco: 13 Offices

BLINDS
PARAMOUNT VENETIAN BLIND CO.
San Francisco: 5929 Mission St., JU 5-2436

BRASS PRODUCTS
GREENBERG'S, M. SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK
Face Brick
GLADDING McBEAN & CO.
San Francisco: Harrison at 9th, UN 1-7400
KRAFTILE CO.
Niles, Calif., Niles 3611
UNITED MATERIALS & RICHMOND BRICK CO.
Point Richmond, BE 4-5032

BRONZE PRODUCTS
GREENBERG'S M. SONS
San Francisco: 765 Folsom St., EX 2-3143
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Road, PLaza 5-B983
C. E. TOLAND & SON
Oakland: 2635 Peralta St., GL 1-2580

BUILDING HARDWARE
E. M. HUNDLEY HARDWARE CO.
San Francisco: 662 Mission St., YU 2-3322

BUILDING PAPERS & FELTS
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CABINETS & FIXTURES
CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316
THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513
MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815
PARAMOUNT BUILT IN FIXTURE CO.
Oakland: 962 Stanford Ave., OL 3-9911
ROYAL SHOWCASE CO.
San Francisco: 770 McAllister St., JO 7-0311

CEMENT
CALAVERAS CEMENT CO.
San Francisco: 315 Montgomery St.
DO 2-4224, Enterprise 1-2315
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CONCRETE AGGREGATES
Ready Mixed Concrete
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
RHODES-JAMIESON LTD.
Oakland: 333-23rd Ave., KE 3-5225

CONCRETE ACCESSORIES
Screed Materials
C. B H. SPECIALTIES CO.
Berkeley: 909 Camelia St., LA 4-5358

CONCRETE BLOCKS
BASALT ROCK CO.
Napa, Calif.

CONCRETE COLORS—HARDENERS
CONRAD SOVIG CO.
875 Bryant St., HE 1-1345

CONSTRUCTION SERVICES
LE ROY CONSTRUCTION SERVICES
San Francisco, 143 Third St., SU 1-8914

DECKS—ROOF
UNITED STATES GYPSUM CO.
2322 W. 3rd St., Los Angeles 54, Calif.
300 W. Adams St., Chicago 6, Ill.

DOORS
THE BILCO COMPANY
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Popovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

Electric Doors
ROLY-DOOR SALES CO.
San Francisco, 5976 Mission St., PL 5-5089

Folding Doors
WALTER D. BATES & ASSOCIATES
San Francisco, 693 Mission St., GA 1-6971

Hardwood Doors
BELLWOOD CO. OF CALIF.
Orange, Calif., 533 W. Collins Ave.

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
T. M. COBB CO.
Los Angeles & San Diego
HOGAN LUMBER CO.
Oakland: 700 - 6th Ave.
HOUSTON SASH & DOOR
Houston, Texas
SOUTHWESTERN SASH & DOOR
Phoenix, Tucson, Arizona
El Paso, Texas
WESTERN PINE SUPPLY CO.
Emeryville: 5760 Shellmound St.
GEO. C. VAUGHAN & SONS
San Antonio & Houston, Texas

DRAFTING ROOM EQUIPMENT
GENERAL FIREPROOFING CO.
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070

DRINKING FOUNTAINS
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341

ELECTRICAL CONTRACTORS
COOPMAN ELECTRIC CO.
San Francisco: 85 - 14th St., MA 1-4438

ELECTRICAL CONTRACTORS (cont'd)

LEMOGE ELECTRIC CO.
San Francisco: 212 Clara St., DO 2-6010

LYNCH ELECTRIC CO.
San Francisco: 937 McAllister St., WI 5158

PACIFIC ELECTRIC & MECHANICAL CO.
San Francisco: Gough & Fell Sts., HE 1-5904

ELECTRIC HEATERS

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211

FIRE ESCAPES

MICHEL & PFEFFER IRON WORKS
South San Francisco: 212 Shaw Road, PLaza 5-8983

FIRE PROTECTION EQUIPMENT

FIRE PROTECTION PRODUCTS CO.
San Francisco: 1101-16th St., UN 1-2420

BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

FLOORS

Floor Tile

GLADDING McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-744
Los Angeles: 2901 Las Feliz Bldg., OL 2121

KRAFTILE CO.
Niles, Calif., Niles 3611

Resilient Floors

PETERSON-COBBY CO.
San Francisco: 218 Clara St., EX 2-8714

TURNER RESILIENT FLOORS CO.
San Francisco: 2280 Shafter Ave., AT 2-7720

FLOOR DRAINS

JOSAM PACIFIC COMPANY
San Francisco: 765 Folsom St., EX 2-3142

GAS VENTS

WM. WALLACE CO.
Belmont, Calif.

GENERAL CONTRACTORS

BARRETT CONSTRUCTION CO.
San Francisco: 1800 Evans Ave., MI 7-9700

JOSEPH BETTANCOURT
South San Francisco: 125 So. Linden St., PL 5-9185

DINWIDDIE CONSTRUCTION CO.
San Francisco: Crocker Bldg., YU 6-2718

O. L. FAULL CONSTRUCTION CO.
Santa Rosa: 1236 Cleveland Ave.

HAAS & HAYNIE
San Francisco: 275 Pine St., DO 2-0678

HENDERSON CONSTRUCTION CO.
San Francisco: 33 Ritch St., GA 1-0856

JACKS & IRVINE
San Francisco: 620 Market St., YU 6-0511

RALPH LARSEN & SON
San Francisco: 64 So. Park, YU 2-5682

LINDGREN & SWINERTON
San Francisco: 200 Bush St., GA 1-2980

MacDONALD, YOUNG & NELSON
Oakland: 8907 Railroad Ave.

MATTOCK CONSTRUCTION CO.
San Francisco: 220 Clara St., GA 1-5516

RAPP, CHRISTENSEN & FOSTER
Santa Rosa: 705 Bennett Ave.

STOLTE, INC.
Oakland: B451 San Leandro Ave., LO 2-4611

SWINERTON & WALBERG
San Francisco: 200 Bush St., GA 1-2980

FURNITURE—INSTITUTIONAL

GENERAL FIREPROOFING CO.
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501

HEATING & VENTILATING

ATLAS HEATING & VENT. CO.
San Francisco: 557-4th St., DO 2-0377

E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., OL 2-6000

LOUIS V. KELLER
San Francisco: 289 Tehama St., JU 6-6252

L. J. KRUSE CO.
Oakland: 6247 College Ave., OL 2-8332

JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

SCOTT COMPANY
Oakland: 1919 Market St., GL 1-1937

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211
Los Angeles: 530 W. 7th St., MI 8096

INSULATION WALL BOARD

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

INTERCEPTING DEVICES

JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3142

IRON—ORNAMENTAL

MICHEL & PFEFFER IRON WKS.
So. San Francisco, 212 Shaw Rd., PL 5-8983

LATHING & PLASTERING

ANGELO J. DANERI
San Francisco: 1433 Fairfax Ave., AT 8-1582

K-LATH CORP.
Alhambra: 909 So. Fremont St., Alhambra

A. E. KNOWLES CORP.
San Francisco: 3330 San Bruno Ave., JU 7-2091

G. H. & C. MARTINELLI
San Francisco: 174 Shotwell St., UN 3-6112

PATRICK J. RUANE
San Francisco: 44 San Jose Ave., MI 7-6414

LIGHTING FIXTURES

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1 8474

LIGHTING & CEILING SYSTEMS

UNITED LIGHTING AND FIXTURE CO.
Oakland: 3120 Chapman St., KE 3-8711

LUMBER

CHRISTENSEN LUMBER CO.
San Francisco: Quint & Evans Ave., VA 4-5832

ART HOGAN LUMBER CO.
San Francisco: 1701 Galvez Ave., ATwater 2-1157

ROLANDO LUMBER CO.
San Francisco: 5th & Berry Sts., SU 1-6901

WEST COAST LUMBERMEN'S ASS'N
Portland 5, Oregon

MARBLE

JOS. MUSTO SONS-KEENAN CO.
San Francisco: 555 No. Point St., GR 4-6365

VERMONT MARBLE CO.
San Francisco: 6000-3rd St., VA 6-5024

MASONRY

BASALT ROCK CO.
Napa, Calif.
San Francisco: 260 Kearney St., GA 1-3758

WM. A. RAINEY & SON
San Francisco: 323 Clementina St., SU 1-0072

GEO. W. REED CO.
San Francisco: 1390 So. Van Ness Ave., AT 2-1226

METAL EXTERIOR WALLS

THE KAWNEER CO.
Berkeley: 930 Dwight Way, TH 5-8710

METAL FRAMING

UNISTRUT OF NORTHERN CALIFORNIA
Berkeley: 2547-9th St., TH 1-3031
Enterprise 1-2204

METAL GRATING

KLEMP METAL GRATING CORP.
Chicago, Ill.: 6601 So. Melvina St.

METAL LATH—EXPANDED

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

METAL PARTITIONS

THE E. F. HAUSERMAN CO.
San Francisco: 485 Brannan St., YU 2-5477

METAL PRODUCTS

FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100

MILLWORK

CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316

THE FINK & SCHINOLER CO.
San Francisco: 552 Brannan St., EX 2-1513

MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815

PACIFIC MFG. CO.
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, S. C. 607
Los Angeles: 6820 McKinley Ave., TH 4156

SOUTH CITY LUMBER & SUPPLY CO.
So. San Francisco: Railroad & Spruce, PL 5-7095

OFFICE EQUIPMENT

GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

OIL BURNERS

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., GL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia, Pa.: 401 North Broad St.

ORNAMENTAL IRON

MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

PAINTING

R. P. PAOLI & CO.
San Francisco: 2530 Lombard St., WE 1-1632

SINCLAIR PAINT CO.
San Francisco: 2112-15th St., HE 1-2196

D. ZELINSKY & SONS
San Francisco: 165 Groove St., MA 1-7400

PHOTOGRAPHS

Construction Progress

FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

PLASTER

PACIFIC CEMENT & AGGREGATE INC.
San Francisco: 400 Alabama St., KL 2-1616

PLASTIC PRODUCTS

PLASTIC SALES & SERVICE
San Francisco: 409 Bryant St., DO 2-6433

WEST COAST INDUSTRIES
San Francisco: 3150-18th St., MA 1-5657

PLUMBING
BRIGGS MFG. CO.
Warren, Michigan
BROADWAY PLUMBING CO.
San Francisco: 1790 Yosemite Ave., MI 8-4250
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143
LOUIS Y. KELLER
San Francisco: 289 Tehama St., YU 6-6252
JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140
RODONI-BECKER CO., INC.
San Francisco: 455-10th St., MA 1-3662
SCOTT CO.
Oakland: 1919 Market St., GL 1-1937

POST PULLER
HOLLAND MFG. CO.
No. Sacramento: 1202 Dixieanne

PUMPING MACHINERY
SIMONDS MACHINERY CO.
San Francisco: 816 Folsom St., DO 2-6794

ROOFING
ANCHOR ROOFING CO.
San Francisco: 1671 Galvez Ave., VA 4-8140
ALTA ROOFING CO.
San Francisco: 1400 Egbert Ave., MI 7-2173
REGAL ROOFING CO.
San Francisco: 930 Innes Ave., VA 4-3261

ROOF SCUTTLES
THE BILCO CO.
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Ropovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

ROOF TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805
SUMMERBELL ROOF STRUCTURES
San Francisco: 420 Market St., EX 7-2796

SAFES
THE HERMANN SAFE CO.
San Francisco: 1699 Market St., UN 1-6644

SEWER PIPE
GLADDING, McBEAN & CO.
San Francisco: 9th & Harrison, UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121

SHEET METAL
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

SOUND EQUIPMENT
STROMBERG-CARLSON CO.
San Francisco: 1805 Rollins Rd., Burlingame, OX 7-3630
Los Angeles: 5414 York Blvd., CL 7-3939

SPRINKLERS
BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

STEEL—STRUCTURAL & REINFORCING
COLUMBIA-GENEVA DIV., U. S. STEEL CORP.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland, Ore.: 2345 N.W. Nicolai, BE 7261
Seattle, Wn.: 1331-3rd Ave. Bldg., MA 1972
Salt Lake City, Utah: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Hayward: Box 3007, LU 1-4451
INDEPENDENT IRON WORKS, INC.
Oakland: 780 Pine St., TE 2-0160
JUDSON PACIFIC MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 New Montgomery St., GA 1-0977
Los Angeles: Edison Bldg.
Seattle: White-Henry Stuart Bldg.
Salt Lake City: Walker Bank Bldg.
Denver: Continental Oil Bldg.

STEEL FORMS
STEELFORM CONTRACTING CO.
San Francisco: 666 Harrison St., DO 2-5582

SWIMMING POOLS
SIERRA MFG. CO.
Walnut Creek, Calif.: 1719 Mt. Diablo Blvd.

SWIMMING POOL FITTINGS
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143

TESTING LABORATORIES (ENGINEERS & CHEMISTS)
ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697
ROBERT W. HUNT COMPANY
San Francisco: 500 Iowa, MI 7-0224
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

TILE—CLAY & WALL
GLADDING McBEAN & CO.
San Francisco: 9th & Harrison Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 945 Elliott Ave. West, GA 0330
Spokane: 1102 No. Monroe St., BR 3259
KRAFTILE CO.
Niles, Calif.: Niles 3611
San Francisco: 50 Hawthorne St., DO 2-3780
Los Angeles: 406 So. Main St., MA 7241

TILE—TERRAZZO
NATIONAL TILE & TERAZZO CO.
San Francisco: 198 Mississippi St., UN 1-0273

TIMBER—TREATED
J. H. BAXTER CO.
San Francisco: 200 Bush St., YU 2-0200
Los Angeles: 3450 Wilshire Blvd., DU 8 9591

TIMBER TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805

TRUCKING
PASSETTI TRUCKING CO.
San Francisco: 264 Clementina St., GA 1-5297

UNDERPINNING & SHORING
O. J. & T. SULLIVAN
San Francisco: 1942 Folsom St., MA 1-1545

WALL PAPER
WALLPAPERS, INC.
Oakland: 384 Grand Ave., GL 2-0451

WAREHOUSE AND STORAGE EQUIPMENT AND SHELVING
GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

WATERPROOFING MATERIALS
CONRAD SOVIG CO.
San Francisco: 875 Bryant St., HE 1-1345

WATERSTOPS (P.V.C.)
TECON PRODUCTS, LTD.
Vancouver, B.C.: 681 E. Hastings St.
Seattle: 2 Hanford St.

WINDOW SHADES
SHADES, INC.
San Francisco: 80 Tehama St., DO 2-7092

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

BANK BLDG., Los Angeles. Citizens National Trust & Savings Bank, Los Angeles, owner. New bank building, 8,000 sq. ft. of area, composition roof, concrete slab and terrazzo floors, plumbing, electrical, acoustical tile and air conditioning. ARCHITECT: Rowland H. Crawford, 146½ S. Doheny Drive, Beverly Hills. GENERAL CONTRACTOR: Myers Bros., 3407 San Fernando Rd., Los Angeles.

STORE BLDG., Los Angeles. Skouras-Krappman-Foy, Los Angeles, owners. Reinforced brick store building, 5000 sq. ft. in area, concrete slab floor, plumbing, electrical, suspended ceilings, hollow metal doors, metal decking, automatic doors, mosaic tile, plastic finish panels, folding doors, overhead doors, heating and air conditioning, metal toilet partitions. ENGINEER: Novikoff Engineers, 3858 W. Santa Barbara Ave., Los Angeles. GENERAL CONTRACTOR: G. Oberman Co., 2928 Roscomare Rd., Los Angeles.

RESIDENCE HALL, Oakland, Alameda county. California College of Arts & Crafts, Board of Trustees, Oakland, owner. Single and two-story building, wood frame on concrete foundations, built-up roofing, stucco and wood exterior—$216,900. ARCHITECT: Blanchard & Maher, 40 1st St., San Francisco. GENERAL CONTRACTOR: F. P. Lathrop Const., 800 University Ave., Berkeley.

NEW CHURCH, Castro Valley, Alameda county. Faith Lutheran Church, Castro Valley, owner. Work will provide wood frame and masonry construction, steel bents—$121,946. ARCHITECT: Johnson & Cometta, Oakie C. Johnson, Architect, 3516 MacDonald Ave., Richmond. GENERAL CONTRACTOR: Carl Lundberg, 2603 Mir Vista, El Cerrito.

HOME ECONOMICS BLDG., Weaverville, Trinity county. Trinity County High School District, owner. Project comprises construction of a wood frame Home Economics Building at the Weaverville High School; composition roofing — $46,680. ARCHITECT: J. Clarence Felciano, 4010 Montecito Ave., Santa Rosa. GENERAL CONTRACTOR: Osborne Const Co., P. O. Box 1034, Redding.

HOTEL REMODEL, San Francisco. Oxford Hotel, owner. Alterations and additions to existing structure to provide motel accommodations, garage and parking facilities: wood frame and concrete construction —$450,000. ARCHITECT: Bruce E. Heiser, 251 Post St., San Francisco. GENERAL CONTRACTOR: Clovis Const. Co., 521 Brannan St., San Francisco.

MEDICAL BLDG., Sacramento. Medical Association of Sacramento, owner. Three story reinforced steel and concrete building will provide facilities for 20 professional offices — $450,000. ARCHITECT: Grant Caywood, 1435 Alhambra Blvd., Sacramento. GENERAL CONTRACTOR:

Stolte, Inc., 8451 San Leandro St., Oakland.

SCHOOL, Billy Mitchell, Carmichael, Sacramento county. Arden-Carmichael Union School District, Carmichael, owner. Structural steel frame construction — $415,027. ARCHITECT: Dreyfuss & Blackford, 2127 "J" St., Sacramento. GENERAL CONTRACTOR: E. J. Mackey Const., 720 Howe Ave., Sacramento.

EXHIBIT BLDG., Fresno. State of California, Sacramento, owner. New exhibit building for the 21st District Agricultural Association: 1-story, 27,000 sq. ft. area plus an adjacent area of 23,400 sq. ft.—$319,000. ARCHITECT: Anson Boyd. State Architect, Sacramento. GENERAL CONTRACTOR Azores Const. Co., 8818 Melrose Ave., Los Angeles.

SCHOOL ADD'N, Gustine, Merced county. Gustine Union School District, owner. Wood frame construction to provide facilities for three classrooms, covered walkways, toilets, some site work — $62,464. ARCHITECT: Falk & Booth, 16 Beale St., San Francisco. GENERAL CONTRACTOR: Hans Pearson, 517 Ramona St., Modesto.

FIRE-SUB STATION, Mill Valley, Marin county. County of Marin, San Rafael, owner. Work includes new building to house three fire trucks, facilities for firemen; garage, small dormitory, day room, duty room — $32,048. ARCHITECT: Schubart & Friedman, 52 Vallejo St., San Francisco. GENERAL CONTRACTOR: C. J. Elkington & Sons, 130 Curry Ave., Sausalito.

RECREATION CLUB, Saratoga, Santa Clara county. Brookside Club of Saratoga, owner. Work includes construction of new facilities including the installation of showers and lockers—$33,330. ARCHITECT: William May, 1565 The Alameda, San Jose. GENERAL CONTRACTOR: Farr & McCullough, 77 E. Santa Clara Ave., San Jose.

ELEMENTARY SCHOOL, Oakland. Oakland Board of Education, owner. Cox Elementary School, wood frame construction to provide facilities for administration unit, 19 classrooms, multi-purpose room, library and toilet facilities — $605,990. ARCHITECT: Reynolds & Chamberlain, 3833 Piedmont Ave., Oakland. GENERAL CONTRACTOR: John G. Buestad, 1237 Hawthorne, Alameda.

SANITORIUM, Martinez, Contra Costa county. New structure, 1-story, wood frame, to provide 22 beds — $47,634. ARCHITECT: Charles Dennis, Pleasant Hill Professional Bldg., Pleasant Hill. GENERAL CONTRACTOR: Peter & Scopin, 1614 Mt. Diablo Blvd., Walnut Creek.

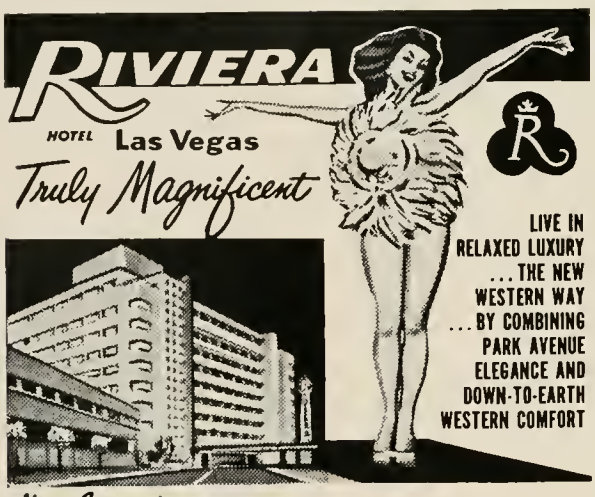
HIGH SCHOOL ADDN., Abraham Lincoln, San Jose, Santa Clara county. San Jose Unified School District, owner. Reinforced concrete construction of addition to present high school building to provide multi-purpose building, 4 general science classrooms, shop building, cafeteria—$484,889. ARCHITECT: Binder & Curtis, 35 W. San Carlos St., San Jose. GENERAL CONTRACTOR: James T. Sakaguchi, 154 Jackson St., San Jose.

SUNDAY SCHOOL BLDG., San Jose, Santa Clara county. Wesley Methodist Church, San Jose, owner. Wood frame, concrete slab floors, construction; 6 classrooms, and sanitary facilities — $28,245. ARCHITECT: Barbachano, Ivanitsky & Watanabe, 11484 San Pablo Ave., El Cerrito. GENERAL CONTRACTOR: N. & N. Const., 805 N. 7th St., San Jose.

MEDICAL BLDG., Oakland, Alameda county. Dr. Igra, Oakland, owner. Work comprises construction of a new medical building with all facilities $37,800. ARCHITECT: George J. Steuer, 705 Maud Ave., San Leandro. GENERAL CONTRACTOR: Len Ray Const. Co., 8932 Elrod Drive, Castro Valley.

ELEMENTARY SCHOOL, New Lu Sutton, Novato, Marin county. Novato Unified School District, owner. Wood frame construction with concrete slab on grade: facilities for administration unit, 12 classrooms, utility room, kindergarten and toilet facilities $392,788. ARCHITECT: John Lyon Reid & Partners, 1019 Market St., San Francisco. GENERAL CONTRACTOR: Reynolds Const. Co., 56 Mt. View Ave., Santa Rosa.

LAW LIBRARY, University of California campus, Berkeley, Alameda county. University of California, Board of Regents, Berkeley, owner. Work comprises completion of work on the McEnerney Law Library on the U.C. Berkeley campus—$346,876. ARCHITECTS: Anderson, Simonds, Dusel & Campini, 2800 Park Blvd., Oakland. STRUCTURAL ENGINEER: Frank E. McCure, 1444 Webster St., Oakland. MECHANICAL ENGI-


RIVIERA
HOTEL Las Vegas
Truly Magnificent
LIVE IN RELAXED LUXURY ... THE NEW WESTERN WAY ... BY COMBINING PARK AVENUE ELEGANCE AND DOWN-TO-EARTH WESTERN COMFORT

Now Appearing . . .

RED SKELTON

Call your local travel agent for reservations now and remember . . . whatever is on your mind . . . it's **BETTER** at the Riviera!

Opening January 12

XAVIER CUGAT . . . ABBE LANE

CLASSIFIED ADVERTISING

Do YOU want to hire, buy, sell, rent, find, lose, and otherwise transact business with others in the Construction Industry? If so, your best bet is a CLASSIFIED ad in ARCHITECT & ENGINEER magazine.

SELL that used equipment at a good price; secure competent employees; buy good used equipment; obtain information on wanted materials, etc.

Rates are low 20 cents per word—cash with order—minimum 3 lines. "Position Wanted" ads are half-rate.

Forms close 20th of month preceding date of publication.

ARCHITECT & ENGINEER
MAGAZINE
68 Post Street **San Francisco**

NEER: Gayner Engineers, 870 Market St., San Francisco. GENERAL CONTRACTOR: Pearce, McCallister & Thorsell, 1029 San Mateo Ave., San Bruno.

FORESTRY HEADQUARTERS, Fortuna, Humboldt county. State of California, Sacramento, owner. Construction of a Humboldt county headquarters building for the Division of Forestry, including heavy equipment building, residence and garage, and equipment building—$64,989. ARCHITECT: Anson Boyd, State Architect, Sacramento. GENERAL CONTRACOR: Glover Const. Co., P. O. Box 913, Santa Rosa.

BRANCH BANK, Vallejo, Solano county. Bank of America, San Francisco, owner. Construction of a reinforced concrete and structural steel bank building in Vallejo—$143,943. DESIGNER: Continental Service Co., 260 5th St., San Francisco. GENERAL CONTRACTOR: Carl Recknagel, 726 Kentucky St., Vallejo.

RETIREMENT HOME ADDN., Pacific Grove, Monterey county. Forest Hill Manor, Monterey, owner. Wood frame construction, approximately 7,000 sq. ft. per floor of two-story building; exterior wood and plaster, built-up roofing, tar and gravel, concrete foundations to provide facilities for 20 new units, plus parking area—$214,300. ARCHITECT: Wm. D. Concolino, 588 Houston St., Monterey. GENERAL CONTRACTOR: Ekelin & Small, P. O. Box 8, Salinas.

ADMINISTRATION BLDG., 18th District Agricultural Association, Bishop, Inyo county. State of California, Sacramento, owner. Frame and stucco construction of a new administration building. ARCHITECT: Anson Boyd, State Architect, Sacramento. GENERAL CONTRACTOR: Bremor Corp., P. O. Box 443, Fontana.

SCHOOL ADDN., Dry Creek Elementary, Roseville, Placer county. Dry Creek School District, owner. Wood frame construction to provide for 2 classrooms and toilet facilities—$44,746. ARCHITECT: Gordon Stafford, 1024½ J St., Sacramento. GENERAL CONTRACTOR: Perkins Const. Co., 3020 Shasta Way, Sacramento.

MEDICAL CENTER, Sacramento. New Medical Center, 3-story building containing 19,000 sq. ft. area and parking for 98 automobiles; facilities for 20 physicians, X-ray laboratory, pharmacy and optician's office — $750,000. ARCHITECT: Grant Caywood, 1435 Alhambra Blvd., Sacramento. GENERAL CONTRACTOR: Stolte, Inc., 8451 San Leandro St., Oakland.

CONVENT, St. Joseph's, Alameda. Archdiocese of San Francisco, owner. New Convent Building — $156,000. ARCHITECT: Albert R. Seyranian, 254 Sutter St., San Francisco. GENERAL CONTRACTOR: Reardon Const. Co., 7 Front St., San Francisco.

SCHOOL BLDG., Fresno. Laton Joint School District, Fresno, owner. 1-Story wood frame and stucco construction of classroom building — $46,557. ARCHITECT: William Hastrup, Crocker-Anglo Bank Bldg., Fresno. GENERAL CONTRACTOR: Walker & Walker, 825 Princeton, Fresno.

SCHOOL BLDG., Pleasant Ridge Union School, Grass Valley, Nevada county. Pleasant Ridge School District, Nevada City, owner. Wood frame and concrete block construction, glu-laminated beams: facilities for administration unit, 4 classrooms, multi-purpose rooms, kindergarten and toilet facilities — $138,054. ARCHITECT: Mayo, DeWolf & Associates, Exchange Bldg., Stockton. STRUCTURAL ENGINEER: A. A. Sauer, 142 N. California St., Stockton. GENERAL CONTRACTOR: Lamon Const., 881 Market St., Yuba City.

BANK BLDG., East Fresno, Fresno county. Bank of America, San Francisco, owner. 1-story with mezzanine, 64 x 110; reinforced concrete construction—$131,000. DESIGNER: Continental Service, 260 5th St., San Francisco. GENERAL CONTRACTOR: Midstate Const. Co., 505 Bank of America Bldg., Fresno.

FIRE HOUSE, Sacramento. City of Sacramento, owner. New fire house building to house three pieces of fire fighting equipment, dormitory for firemen; light steel and masonry construction $81,929. ARCHITECT: Cox & Liske (Whitson W. Cox, Architect), 926 J St., Sacramento. GENERAL CONTRACTOR: John F. Otto, 4322 24th St., Sacramento.

HIGH SCHOOL ADDN., Manteca, San Joaquin county. Manteca Union High School District, owner. Wood frame construction to provide facilities for a general shop and 2 classrooms — $116,826. ARCHITECT: Harry J. Devine, 1012 J St., Sacramento. GENERAL CONTRACTOR: Modern Engineering & Construction, 1128 N. Union, Stockton.

ELECTRONIC LABORATORY, Palo Alto, Santa Clara county. Stanford University, Stanford, owner. Two-story and basement reinforced concrete building; approximately 13,500 sq. ft. area—$200,875. ARCHITECT: Spencer & Lee, 251 Kearny St., San Francisco. GENERAL CONTRACTOR: Cortelyou & Cole, 546 Oxford Ave., Palo Alto.

HALL OF JUSTICE, Oakland, Alameda county. City of Oakland, owner. Construction of a new Hall of Justice Building in Oakland, Phase 1 comprising new Center, police department, jail, courts, to be flanked by parking area; projected extension of Eastshore Freeway. Basic design calls for 10 stories, aluminum exterior; 2-story jail, 3-story courts building; approximate floor area is 255,000 sq. ft.—$2,149,400. ARCHITECT: Confer & Willis, 366 40th St., Oakland. GENERAL CONTRACTOR: Johnson, Drake & Piper, 9009 San Leandro St., Oakland.

HOME FOR GIRLS, San Leandro, Alameda county. Alameda County, Oakland, owner. 1-story wood frame, stucco exterior, composition roofing, 7000 sq. ft. of area, and all facilities for County Home for Girls $169,425. ARCHITECT: Chester H. Treichel, 696 Cleveland St., Oakland. GENERAL CONTRACTOR: N. T. Lewis, 25001 O'Neil Ave., Hayward.

TELEPHONE BLDG., Morgan Hill, Santa Clara county. Western California Telephone Company, Morgan Hill, owner. Reinforced concrete construction of telephone building — $70,300. ARCHITECT: Clarence O. Peterson, 116 New Montgomery St., San Francisco. GENERAL CONTRACTOR: Moroney Const. Co., Inc., 1408 Chapin Ave., Burlingame.

ON EXHIBIT
CONSTRUCTION MATERIALS CENTER
330 Clay Street, San Francisco

REMILLARD-DANDINI Co.
Brick and
Masonry Products
★
400 MONTGOMERY STREET
SAN FRANCISCO, CALIF.

Scott Company
HEATING • PLUMBING
REFRIGERATION
★
San Francisco
Oakland
San Jose
Los Angeles

ARCHITECT
and
ENGINEER
Please enter my subscription for ..... year..... My check in the amount of $..... is attached.
1 year $3.00
2 years . . . 5.00
Name.....
City.....
State.....

IN THE NEWS

ENGINEERS ANNOUNCE EXPANDED PROGRAM AND PERSONNEL

Charles T. Blair, vice-president of Wilsey and Ham, Engineers and Planners, recently announced details of a major expansion program including the appointment of four division managers to supervise work projects and direct staff management affairs

Gordon Tillson of San Mateo; Jack Van Zandt of San Carlos; B. J. Whitlow of San Rafael, and William B. Wright of Millbrae, all veteran engineers and long time members of the Wilsey and Ham staff, are the new divisional managers. Abraham Krushkov of San Mateo will head a newly established planning division.

Because of increased activitiy in the field of city, county and regional planning and the growing importance of this work, the designation "Planners" has been added to the firm name, and Robert S. Reed of San Mateo has been appointed Advance Projects Coordinator to provide liaison in project planning.

Other appointments include: Robert E. Smart, work specifications and job supervision; Edward Beall, controller.

The firm's main office and headquarters building in Millbrae is being enlarged and renovated, and the growing engineering and planning organization now employs more than 100 engineers, surveyors, economists, planners and other technical personnel.

SITE PURCHASED FOR SHOPPING CENTER

Developer Ed Mollan, 2040 So. Mooney Blvd., Visalia, has announced purchase of a site near Visalia for construction of a $3,000,000 shopping center which will provide facilities for a number of stores on a 17-acre site.

LOS ANGELES BUILDING CENTER OBSERVES ANNIVERSARY

Th first anniversary of the Building Center in Los Angeles will be observed the latter part of this month with an open house honoring the Architects, Decorators, Landscape Architects and manufacturers who are participants in the exhibit located on Third Street west of Fairfax Avenue.

The architectural gallery, a major attraction of the Building Center, has featured special displays of the work of seventy-four members of The American Institute of Architects, and the anniversary exhibition of architecture will feature the work of Palmer and Krisel, A.I.A., Architects and Engineers.

Their display will continue through January 15th. Other scheduled exhibits include the work of Smith and Williams, Architects and Engineers, November 16-30; Richard J. Neutra, F.A.I.A., December 1-15; Palmer and Krisel, A.I.A., Architects and Engineers, December 20 through January 15; Stiles and Robert Clements, Architects and Engineers, January 16-31; Orange County Chapter of the American Institute of Architects, February 1-15; exhibit of church architecture, the last half of February.

STRUC. CLAY PRODUCTS ELECT NEW OFFICERS FOR THIS YEAR

Kenneth W. Dunwody, President of the Cherokee Brick and Tile Company of Macon, Georgia, has been elected to serve his second term as president of the Structural Clay Products Institute, the national authority on brick and tile construction.

Also re-elected to serve a second term were Paul B. Belden, Jr., president of the Belden Brick Company, Canton, Ohio, vice-president; George Gammie, vice-president and sales manager of the Illinois Brick Company, treasurer; and Joseph J. Cermak of Washington, D.C., staff of the SCPI, secretary.

Elected to serve on the Board of Directors, representing the West, were: William F. Grabe, Grabe Brick Company, Tucson, Arizona; John C. Boggs, California Clay Products, Stockton, Oscar F. Person, United Materials & Richmond Brick Co., Ltd., Point Richmond, and John W. Rice, Jr., Union Brick Co., Rose Canyon, San Diego; William J. Geddes, Denver Brick & Pipe Co., Denver, Trig Kristiansen, Denver Terra Cotta Co., F. George Robinson, Robinson Brick & Tile Company, Denver; and Ralph J. Welte, Summit Pressed Brick and Tile Co., Pueblo, all of Colorado; and Carlton E. Goudge, Gladding, McBean & Co. of Seattle, Washington.

CECIL H. WELLS, JR. OPENS NEW OFFICES IN SAN MATEO

Cecil H. Wells, Jr., Consulting Structural Design Engineer, has opened new offices at 2006 Pioneer Court, San Mateo, California, according to a recent announcement.

Wells lectures on Structural Engineering at Stanford University and Menlo College, and is active in civic affairs as Chairman of the San Mateo Planning Commission and is Vice-president of the Tri-County Planning Council which serves San Francisco, San Mateo and Santa Clara counties.

CARL A. HENDERLONG RETIRES FROM CALIF. DIVISION ARCHITECTURE

Carl A. Henderlong, principal Mechanical and Electrical Engineer in the California Division of Architecture, retired from State service recently following more than 44-years of service with the Architecture division, according to an announcement by Anson Boyd, State Architect.

Born in Alameda in 1896, Henderlong attended school in Alameda, San Francisco and Sacramento, and started with

STROMBERG-CARLSON®

SOUND EQUIPMENT

These authorized distributors offer complete specification and planning assistance, installation and guarantee — on famous Stromberg-Carlson sound, public address and intercom systems:

S-C STROMBERG-CARLSON

DISTRICT OFFICES

SAN FRANCISCO
STROMBERG-CARLSON COMPANY
1805 Rollins Road,
Burlingame ..... OXford 7-3630

LOS ANGELES
STROMBERG-CARLSON COMPANY
5415 York Blvd..... CLinton 7-3939

ENGINEERING DISTRIBUTORS

FRESNO
TINGEY COMPANY
847 Divisadero St.. ADams 7-6468

LOS ANGELES
HANNON ENGINEERING, INC.
5290 West Washington Blvd..... WEbster 6-5176

OAKLAND
CUSTOM ELECTRONICS
963 32d Street..... OLympic 9-4179

PHOENIX
RA-TONE ELECTRONICS CO., INC.
325 No. 4th St. ..... ALpine 8-6793

SACRAMENTO
SEMONI SOUND SERVICE
2181 Weller Way..... GIlbert 3-6438

SAN DIEGO
MUSIC SERVICE, INC.
2408 Fifth Ave. ..... BElmont 2-2589

SAN FRANCISCO
CUSTOM ELECTRONICS
2090 Evans St..... MIssion 8-2534

SAN JOSE
CUSTOM ELECTRONICS
87 Bassett St..... CYpress 3-4300

SEATTLE
W. D. LASATER COMPANY
815 No. 35th St..... MElrose 2090

SPOKANE
NORTHWEST ELECTRONICS, INC.
No. 102 Monroe St..... MAdison 9289

PORTLAND
MANCHESTER-CHANDLER CO.
2915 N.E. Alberta St..... GA 6600

Testing and Inspection of All Architectural and Construction Materials

Metallurgists • Chemists
Radiographers

Tests and Investigations of Foundation Soils

PITTSBURGH TESTING LABORATORY

651 Howard St., San Francisco 5
Phone: EXbrook 2-1747
Offices in all principal cities

the Division of Architecture in 1914 as a Mechanical Engineer, when the Division consisted of 25 employees—today there are more than 1000 employees.

In 1914 an annual construction program of a million dollars was considered very large and an individual project of $30,000 was considered a major project. Today, a major project is one consisting of $2,000,000 or more, while the State's annual construction program runs between $80,000,000 and $130,000,000.

Henderlong is a licensed mechanical and electrical engineer and is a member of the Illuminating Engineering Society; the Sacramento Consistory of the Scottish Rite and belongs to Ben Ali Temple of the Shrine; and a member of the Elks Club.

TAYLER PRODUCTS COMPANY MOVE TO NEW LOCATION

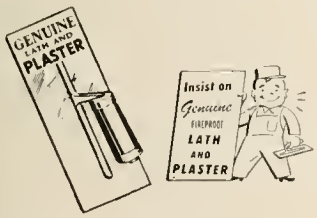
Announcement has been made of the moving of the Tayler Products Corporation's San Francisco Bay Area plant and offices to 40 Broderick Road in Burlingame.

The new facilities will permit an expanded activity in the fields of grating, expanded metal, pipe rail fittings, and light-steel nailable studs and joists.

BYRON E. JONES NAMED PORTLAND CEMENT ASSN. PORTLAND REP.

Byron E. Jones, former Los Angeles staff member of the Portland Cement Association has been named to manage the newly expanded Portland, Oregon, offices of the Association.

He will carry out his activities in Oregon under direction of the Seattle, Washington, district office, and will offer assistance of engineers skilled in all types of concrete construction and the lastest information on uses of cement and concrete.



Attention: Mr. Architect and Engineer

The Lathing and Plastering Industry offers complete specification and planning assistance. This service is free with absolutely no obligations attached. Call or write the office in your area for immediate service.

GOLDEN GATE LATHING AND PLASTERING INSTITUTE
850 S. Van Ness Avenue
San Francisco 10 ATwater 2-8220
Servicing San Francisco County

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue
San Carlos LYtell 3-2634
Servicing San Mateo and Santa Clara Counties.

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street
Oakland 12 GLencourt 2-0313
Servicing Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16
GLadstone 1-1879
Servicing Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

UNIVERSAL PIPE HANGER RING REPLACES VARIETY OF FORMERLY USED TYPES

A universal adjustable pipe hanger ring provides a single unit which can be used in most applications in place of most other types of pipe hanger rings. The "Auto-grip" reduces inventory investment, storage space requirements, and purchasing costs.

The "Auto-Grip" ring consists of a metal band and a locking insert for attachment to a threaded hanger rod. The insert is self-locking through spring action as well as through the weight of the pipe supported. Available in zinc or copper plate as standard, for pipe sizes from ½ through 3½ in. Other finishes and metals available on special order. May be safely loaded to 500 lbs. For complete data, write manufacturer, Automatic Sprinkler Corporation of America, Youngstown 1, Ohio.

GOV. GEORGE D. CLYDE OF UTAH IS SPEAKER AT LOS ANGELES MEETING

Governor George D. Clyde of Utah, one of the few engineers of the nation holding high political office, will be one of the principal speakers at the annual convention of the American Society of Civil Engineers in Los Angeles, February 9-13.

Governor Clyde, an active member of the ASCE for many years, will speak on the subject, "Government, the Engineer and the Future."

CONSTRUCTION EXECUTIVE NAMED VICE PRESIDENT OF LOS ANGELES FIRM

J. Paul Oppenheim, vice president and general manager of Bishop-Mattei Construction Company, Inc., San Francisco, has been appointed vice president of the C-B Building Corp. of Los Angeles. Both organizations are affiliated with The Bishop Group of engineering and construction companies.

Oppenheim, who has been in architecture, engineering and construction for twenty years, joined the Bishop organization as manager of construction in November 1955, and became vice president and general manager of Bishop-Mattei in June 1956. He will continue to make his headquarters at the office of Bishop-Mattei in San Francisco.

RAYMOND H. BROWN RETIRES FROM GLADDING, McBEAN

Raymond H. Brown, Masonry Sales Manager for the Gladding, McBean & Company, and associated with the firm for the past thirty-two years, is retiring from the company, according to an announcement by C. W. Planje, president.

Brown joined the Gladding, McBean company in 1937 as an estimator, draftsman and salesman in the San Francisco offices, and in 1945 was appointed Sales Manager of Architectural Products for the San Francisco area, and in 1952 was promoted to General Sales Manager of Masonry Products, a position he held until his retirement.

Brown has been very active in the building industry serving as President of both the Producers Council and the Building Industry Conference Board. He is a member of the Society of American Military Engineers and the Central California Associated General Contractors.

NEW CONVALESCENT HOSPITAL PLANNED FOR LOS GATOS

Architect Kenneth P. Elvin, Bank of America Building, Palo Alto, is preparing preliminary plans and specifications for construction of a new convalescent hospital in Los Gato, Santa Clara county, for

ROBERT W. HUNT CO.

ENGINEERS

INSPECTING

TESTING

●

Structural Materials

Concrete Mix Design

Chemical Analysis

Equipment

●

PRINCIPAL CITIES
UNITED STATES • EUROPE

SAN FRANCISCO
LOS ANGELES
PORTLAND **SEATTLE**

Construction News on Radio!

LISTEN EVERY WEEK

KNBC
San Francisco
SATURDAYS, 8:45 A.M.

•

KSRO
Santa Rosa
SATURDAYS, 12:15 P.M.

•

KCRA
Sacramento
SUNDAYS, 10:30 A.M.

•

KFIV
Modesto
FRIDAYS, 6:00 P.M.

The Construction Industry's Voice on the Air

Sponsored by

Calaveras Cement Co.

Dr. Frank L. Gaunt of San Jose.

The new facilities will provide 24 beds and is being planned to add an additional 16 beds at a later date.

ARMEN G. ALBARIAN NOW REPRESENTS G-E ON COAST

Armen G. Albarian has been appointed to the sales staff of the West Coast Section of G-E Company's Chemical Materials Department headquartered at Anaheim, California, according to an announcement by J. L. Galt, West Coast manager.

He will be responsible for the sale of G-E polyester resins to the reinforced plastics industry. A native of California, Albarian graduated from Pomona College in 1948 with a Bachelor of Arts degree in chemistry, and joined G-E the same year.

WESTERN PINE ASSN. ISSUES NEW 1959 DIRECTORY

A listing of some 400 Western Pine Region lumber manufacturers and the products and product services they make available is contained in the 1959 directory for the Western Pine Association, recently published and being distributed to architects, engineers and contractors.

The directory shows mill locations, sales offices, and soch details as species, branding, kiln drying facilities, staple products, special products, packaged paneling, and many more.

Copies of the directory are available by writing to the Western Pine Association, 510 Yeon Bldg., Portland, Oregon, and stating you learned of the new publication through ARCHITECT & ENGINEER magazine.

AMERICAN CONCRETE INSTITUTE SCHEDULES LOS ANGELES MEET

The Annual Convention of the American Concrete Institute will be held in the Statler Hotel, Los Angeles on February 23-26, and will emphasize the latest projects and construction methods in the western United States.

The convention's opening meetings will be devoted to "working sessions" of the ACI technical committees. The technical program of the convention will move into full swing on Tuesday afternoon, with the first general session devoted to revisions of ACI by-laws and the consideration of proposed standards or revisions of standards.

Other subjects scheduled for discussion include "special problems in concrete, analysis, and concreting materials and methods."

DR. FRANK J. LAVACOT NAMED RESEARCH DIRECTOR

McCormick Selph Associates of Hollister, California, recently announced the appointment of Dr. Frank J. Lavacot as Director of the organization's department of Research and Development.

Dr. Lavacot was formerly Head, Propulsion Systems Division, U. S. Naval Ordnance Test Station.

PORTLAND CEMENT ASSN. OPENS NEW OFFICES SAN FRANCISCO

The Portland Cement Association has announced the opening of new offices in Suite 415, Russ Building, San Francisco, and the appointment of Charles F. Moran and Robert E. Jones to staff the new offices which will offer field service activities in Northern California and Northern Nevada.

Moran will serve as structural engineering specialist and Jones will fill the position of paving engineer and general field engineer, according to John M. McNerney, Western Regional manager.

Extension of Association field services in the two areas will make available the assistance of engineers skilled in all types of concrete construction. Both Moran and Jones have been members of the Los Angeles District office staff of the Association for the past six years.

CALIFORNIA COUNCIL OF CIVIL ENGINEERS MAKE 1959 CONVENTION PLANS

F. William Pafford of Los Angeles, program chairman of the Seventh Annual Convention of the California Council of Civil Engineers and Land Surveyors, announced the highlight of this year's conference will be the report of one of the most comprehensive studies of surveying and mapping ever undertaken in the United States. The result of several years of work by a task committee of the American Society of Civil Engineers will be discussed by the committee's chairman B. Austin Barry.

Other features of the technical program, to be held during the convention, January

VALUABLE NEWS SERVICE

- **BUILDING MATERIAL DEALERS**
- **CONTRACTORS**
- **SUB-CONTRACTORS**
- **MANUFACTURERS AND REPRESENTATIVES**

ARCHITECTS REPORTS gives advance news on construction projects in Northern California, lists: name of projects, location, architect, proposed cost and other pertinent information.

HANDY individual slip-reports, issued daily at a total cost of only

$10 a month

ARCHITECT'S REPORTS
Published Daily
The ARCHITECT and ENGINEER, Inc.

68 Post Street, San Francisco - DO 2-8311

22-23-24, at the Statler-Hilton Hotel in Los Angeles, will be panel discussions on electronic computing and professional fees; systems engineering, geology in subdivision development; and the pertinent aspects of the mechanic's lien law and the national highway program.

Social events of the convention include luncheons, fashion show, cocktail party and banquet, followed by dancing and entertainment.

HILL & INGAM APPOINT V. O ROCKETT

Hill & Ingam, Seattle Consulting Engineers, recently announced the appointment of V. O. Rockett as Director of Engineering Publications.

Vern Rockett is well known throughout the industrial and engineering circles having operated his own business in Seattle for many years in the industrial and public relations field.

"PETE" YOUNG RETIRES FROM MacDONALD, YOUNG AND NELSON

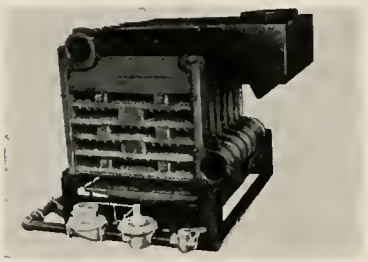
Dallas, "Pete" Young, a veteran of 45 years in the contracting business, and for the past 13 years a partner in the construction firm of MacDonald, Young & Nelson, Inc., Oakland, has announced his retirement from active business.

Regarded by many as the "dean" of west coast construction men, Young is a past president of the Northern California Chapter AGC, and is currently a director of the National AGC.

Young's retirement from the contracting business will be gradual. He has sold his interest in MacDonald, Young & Nelson, but will remain as vice president of the firm, and in this capacity will supervise and manage construction of the new Giants baseball stadium at Candlestick Point in San Francisco.

PEERLESS INTRODUCES HIGH CAPACITY LOW FLUE COLLECTOR BOILERS

Introduction of the new Series 150 gas fired, cast iron boilers has been announced by the Peerless Heater Company of Boyerton, Pa., which means that low ceiling boiler rooms no longer represent a problem.



Manufactured in 33 sizes, from 600,000 to 5,400,000 btu input for steam or hot water systems; equipped with horizontal to vertical flue collectors and draft diverters. This new designed assembly maintains a predetermined maximum height of the flue outlets regardless of boiler size. New buildings can now be designed with lower ceiling boiler rooms, permitting lower cost construction. Complete data from Peerless Heater Company, Boyerton, Pa.

KAWNEER COMPANY MOVES OFFICES TO RICHMOND

The San Francisco Bay Area general offices of the Kawneer Company have been moved from Berkeley to 600 Parr Blvd. in Richmond, California, according to a recent announcement.

Manufacturing facilities conducted at the Berkeley location have also been transferred to Richmond.

SAN FRANCISCO CIVIC CENTER PLAN REVISION

First revision of San Francisco's civic Center Master Plan in 41 years was unfolded at a public meeting recently under auspices of the Northern California Chapter, AIA.

The proposed Civic Center Development Plan, two years in the making, covers the expansion needs of the city, state and federal offices and courts, and San Francisco's cultural and convention requirements for the next 20 years. It was prepared under direction of a Technical Coordinating Committee headed by James R. McCarthy, City Planning Director.

Presentation of the plan consisted of sketches, photographs, area plans, perspective views, building plans and a model.

"The original Master Plan for the Civic Center, prepared in 1911, has been hopelessly outmoded for at least 20 years," declared Donald Powers Smith, Architect and president of the NCAIA, "and it was our view that a logical and orderly development of the city's administrative and cultural hub could only emerge from the kind of long-range technical and professional

DINWIDDIE CONSTRUCTION COMPANY

•

Builders

•

CROCKER BUILDING
SAN FRANCISCO

MacDONALD YOUNG & NELSON, INC.

General Contractors

8907 RAILROAD AVENUE
OAKLAND, CALIFORNIA

LOckhaven 9-4433

ABBOT A. HANKS, INC.

ENGINEERS AND CHEMISTS

INSPECTING — TESTING — CONSULTING

CONCRETE • STEEL • MATERIALS
CHEMICAL AND TESTING LABORATORIES
RESEARCH AND INVESTIGATION

Tests of Structural Materials • Design of Concrete Mixes • Shop and Erection Inspection of Structures and Equipment • Investigation of Structures and Materials • Tests and Investigation of Foundation Soils • Fire Resistance and Insulation Tests

1300 SANSOME STREET
SAN FRANCISCO

MATTOCK
CONSTRUCTION
COMPANY

☆

BUILDERS

★

220 CLARA STREET
SAN FRANCISCO

MULLEN MFG.
COMPANY

•

BANK, STORE AND
OFFICE FIXTURES—
CABINET WORK OF
GUARANTEED QUALITY
CHURCH SEATING

•

Office and Factory
60-80 RAUSCH ST.,
Bet. 7th and 8th Sts.
San Francisco

Telephone UNderhill 1-5815

KOLORBLEN
Concrete Color Hardener
COLOR WAXES
SEALER—STAINS
Conrad Sovig Co.
Distributors—Contractors Concrete Specialties
675 BRYANT STREET
San Francisco - HEmlock 1-1345

reappraisal which the city has now completed."

Architect-Engineer consultants retained by the City's Technical Committee included: Wurster, Bernardi and Emmons, Architects; Skidmore, Owings and Merrill, Architects; and De Leuw, Cather and Company, Engineers.

ARCHITECTURAL GUILD ORGANIZED IN LOS ANGELES

Formation of a philanthropic society to be known as The Architectural Guild, by prominent alumni and friends of the University of Southern California, and the selection of Architect Whiting S. Thompson as president has been announced.

The purpose of the guild is "the furtherance of architectural education" and membership is open to those interested in advancing architectural education in Southern California.

Officers and board of directors elected at the first meeting include: Whiting S. Thompson, president; Frank Gruys, vice-president; Gus Kalionzes, secretary; and Board members are: William Balch, Robert Clements, Rowland Crawford, C. M. Deasy, Lee Kline, Arthur Mann, Carl McElvy, Howard Morgridge, Robert Saxon, Kenneth Wing and Henry L. Wright.

ARCHITECT FIRM AWARDED NATIONAL MERIT CERTIFICATE

Victor Gruen Associates, nationwide architectural firm with headquarters in Los Angeles, has been awarded a Certificate of Merit from the New York State Association of Architects for their outstanding design of the $15,000,000 Midtown Plaza Project for the City of Rochester, New York.

The project includes a 7-acre shopping center with enclosed, air conditioned Mall, 18-story office-hotel structure, bus terminal and a 3-level underground parking garage with space for 2,000 cars.

ELKS TO BUILD BUILDING

The architectural firm of Smart & Clabaugh, 1001 Yuba Street, Redding, has completed plans for construction of a new building in Redding for the B.P.O.E. Elks of Redding.

The project also includes site work.

FERNANDO PENALOSA ARTIST-DESIGNER MOVES OFFICES

Fernando Penalosa, specialist in art direction, design, advertising and publicity lay-out and production, recently moved into new offices at 942 Market Street, San Francisco.

J. F. OTTMAR CO. NAMED SPOKANE DISTRIBUTOR

The J. F. Ottmar Co., Spokane, Washington, has been named a distributor for RCA engineered sound products, according to a recent announcement by M. J. Yahr, manager, Audio Products Sales, Industrial Electronic Products, Radio Corporation of America.

The Spokane firm will handle engineering and installation of all types of RCA sound and intercom systems.

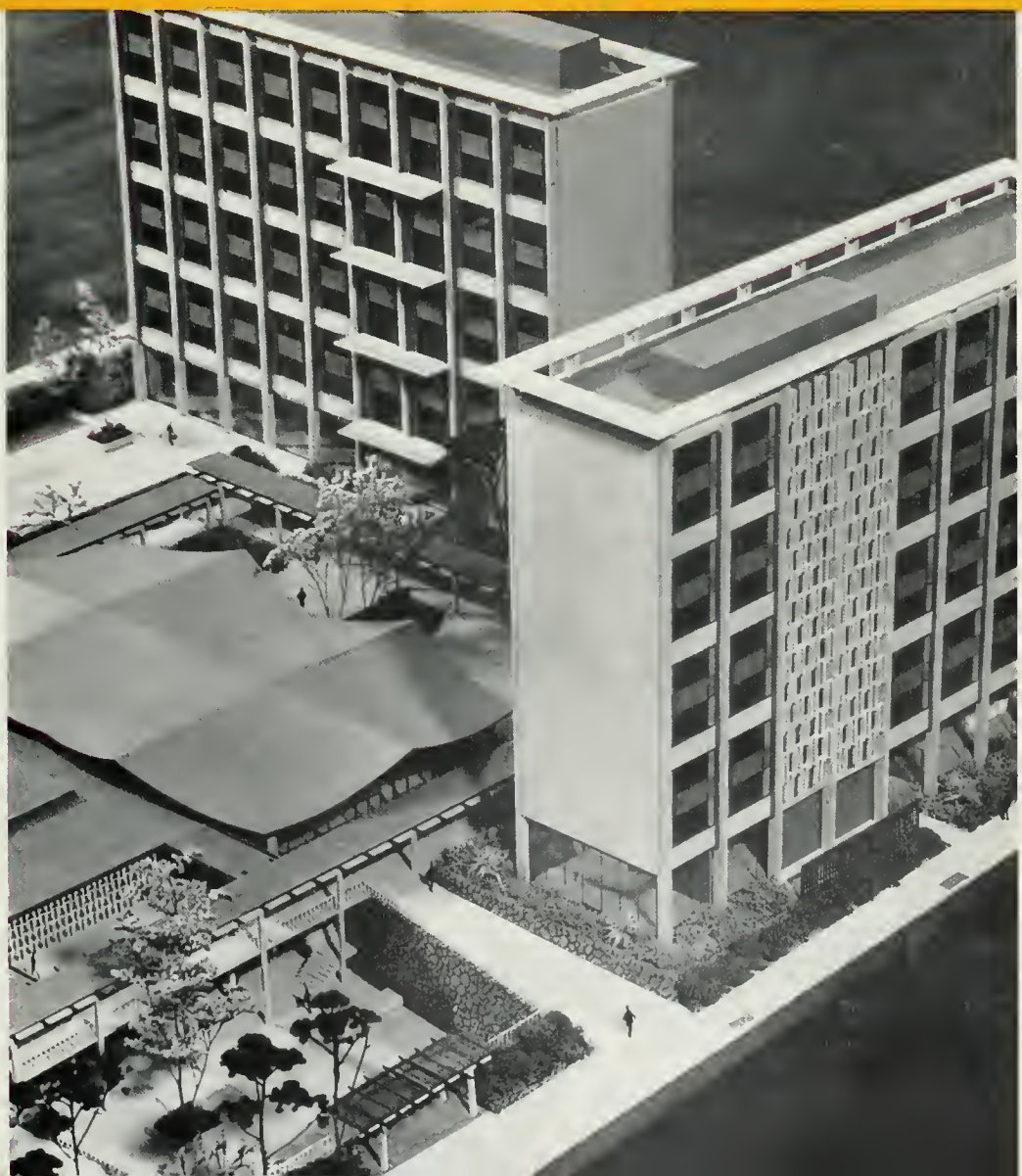
Index to Advertisers

ARCHITECTS Reports	46
BRIGGS Beautyware	*
CALAVERAS Cement	46
CALIFORNIA Metal Enameling Co., Architectural Division	*
CLASSIFIED Advertising	38
CLAUSEN & Clausen	21
CROWN Electric Maintenance Co.	20
DINWIDDIE Construction Company	47
EVJU Products Co., Inc.	24
FORDERER Cornice Works	30
GLADDING, McBean & Company	*
GREENBERG'S, M., Sons	*
HAAS & Haynie Const. Co.	32
HANKS, Abbot A., Inc.	47
HAWS Drinking Faucet Co.	31
HERMANN Safe Co., The	33
HERRICK Iron Works	32
HUNT, Robert W., Company	45
JOSAM Pacific Co.	*
JUDSON Pacific-Murphy Corp.	30
KRAFTILE Company	28
LATHING & Plastering	45
LeROY Construction Services	34
MacDONALD, Young & Nelson Inc.	47
MATTOCK Construction Co.	48
McNEAR Brick Co.	22
MICHEL & Pfeffer Iron Works, Inc.	*
MULLEN Mfg. Co.	48
PACIFIC Cement & Aggregates, Inc.	29
PACIFIC Manufacturing Co.	30
PETERSON, A. E., & Sons	22
PITTSBURGH Testing Laboratory	44
PORCELAIN Enamel (Architectural Division) Publicity Division	*
REMILLARD-Dandini Co.	43
REPUBLIC Steel Corporation	34
RIVIERA Hotel, Las Vegas, Nev.	42
SCOTT Company	43
SHADES, Inc.	43
SIMONDS Machinery Co.	33
SOVIG, Conrad, Co.	48
STROMBERG-Carlson Co.	44
TAYLER Products Corporation	Back Cover
UNITED STATES Steel Corp.	*
U. S. Savings Bonds	Inside Back Cover
VERMONT Marble Co.	34
WOODWARD & Wilson, Inc.	23
WESTERN Structural Tile Institute	*

*Indicates Alternate Months

ARCHITECT AND ENGINEER

UNIVERSITY OF CALIFORNIA RESIDENCE HALLS . . . Berkeley Campus



1

A

R

C

I

1959

MARCHANT CALCULATORS, INC.

INTERNATIONAL HEADQUARTERS, OAKLAND, CALIFORNIA

ARCHITECT: ALBERT F. ROLLER

GENERAL CONTRACTOR: DINWIDDIE CONSTRUCTION CO.

ARCHITECTURAL & MISCELLANEOUS METAL WORK

ARISTON
Metal Products

Michel & Pfeffer Iron Works, Inc.
212 Shaw Road
South San Francisco, California
PLaza 5-8983

Since 1912 Fabricators of Architectural Metal • Metal Windows and Doors • Steel Buildings

MAR 5
SAN FRANCISCO PUBLIC LIBRARY

SCOTT CO. ON TWO MAJOR DINWIDDIE PROJECTS

PLUMBING
HEATING
AIR CONDITIONING

EQUITABLE LIFE BUILDING, SAN FRANCISCO (left)

Architects: W. B. Glynn and A. J. Louhet

Consulting Architect: I. D. Clavin

Mechanical Engineer: H. W. Eagleson

MARCHANT CALCULATORS, INC.

INTERNATIONAL HEADQUARTERS, OAKLAND (below)

Architect: Albert F. Roller

Mechanical Engineers: Dudley Deane & Associates

SCOTT CO.

MECHANICAL CONTRACTORS

SAN FRANCISCO • LOS ANGELES

Main Office: 1919 Market Street, Oakland

PIRIB Longspan Roof Deck is the only steel deck to offer longspan advantages at shortspan pric

Make your next building a BETTER BUILDING . . . with PIRIB

PACIFIC IRON & STEEL CORPORATION

OF L. A.

11633 SOUTH ALAMEDA STREET, LOS ANGELES 2, CALIFORNIA • LORAIN 6-2111
RUSS BUILDING, SAN FRANCISCO 4, CALIFORNIA • YUKON 2-9429
3100 SOUTH 1100 WEST, OGDEN, UTAH • EXPORT 4-4553

Vol. 216 No. 3

EDWIN H. WILDER
Editor

CONTRIBUTING EDITORS:

Education
SIDNEY W. LITTLE, Dean, College of Fine Arts and Department of Architecture, University of Arizona, Tucson, Arizona.

City Planning
CORWIN R. MOCINE, City Planning Engineer, Oakland, California

Urban Planning and Shopping Centers
FRANK EMERY COX, Sales Research & Business Development Analyst, Berkeley, California

Realty Development
ROY P. DRACHMAN, Subdivider and Realty Developer, Tucson, Arizona

School Planning
DR. J. D. McCONNEL, Stanford School Planning Dept., Palo Alto, California

Residential Planning
JEDD JONES, Architect, Boise, Idaho

General Architecture
ROBERT FIELD, Architect, Los Angeles, California

Engineering
JOHN A. BLUME, Consulting and Structural Engineer, San Francisco, California

Advertising
WILLIAM A. ULLNER, Manager

FRED JONES
Special Advertising

★

COVER PICTURE

UNIVERSITY OF CALIFORNIA
RESIDENCE HALL
Berkeley
Warnecke & Warnecke, Architects

Model of national architectural award winning design by Warnecke & Warnecke, Bay Area architects, now under construction on the U.C. Berkeley campus by Dinwiddie Construction Company.

See page 10 for complete story on Dinwiddie Construction Company's projects.

ARCHITECTS' REPORTS—
Published Daily
Archie MacCorkindale, Manager
Telephone DOuglas 2-8311

ARCHITECT AND ENGINEER

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.; and ART INDEX

Contents for

MARCH

EDITORIAL NOTES 4

STANDARD FEDERAL SAVINGS & LOAN ASSOCIATION, Los Angeles . 5
WELTON BECKET AND ASSOCIATES, Architects.

SOUTHERN CALIFORNIA SMALL CRAFT HARBOR, Redondo Beach . 5
VICTOR GRUEN ASSOCIATES, Architects.

NEWS & COMMENT ON ART 6

VIEW HOME OVERLOOKING SAN FRANCISCO BAY, Tiburon-Belvedere, California 8
By JOHN E. BROWN, Structural Engineer.

DINWIDDIE CONSTRUCTION COMPANY, Reviewing 45 Years of Building For A Better World 10
By FRED JONES.

MUD — Lathing & Plastering Information 25
By GEORGE R. D. ESTCOURT, North Coast Plastering Industries, Inc.

AMERICAN INSTITUTE OF ARCHITECTS — Chapter Activities . . 26

WITH THE ENGINEERS — News and Notes 28

BOOK REVIEWS, Pamphlets and Catalogues 33

ESTIMATOR'S GUIDE, Building and Construction Materials 35

BUILDING TRADES WAGE SCALES, Northern, Central & Southern California 37

CLASSIFIED ADVERTISING 38

ESTIMATOR'S DIRECTORY, Building and Construction Materials . . . 39

CONSTRUCTION CONTRACTS AWARDED and Miscellaneous Data . . 41

IN THE NEWS 44

INDEX TO ADVERTISERS 48

THE OLDEST PROFESSIONAL MONTHLY BUSINESS MAGAZINE OF THE ELEVEN WESTERN STATES

ARCHITECT AND ENGINEER (Established 1905) is published on the 15th of the month by The Architect and Engineer, Inc., 68 Post St., San Francisco 4; Telephone EXbrook 2-7182. President, K. P. Kierulff; Vice-President and Manager, L. B. Penhorwood; Treasurer, E. N. Kierulff. — Los Angeles Office: Wentworth F. Green, 439 So. Western Ave., Telephone DUnkirk 7-8135 — Entered as second class matter, November 2, 1905, at the Post Office in San Francisco, California, under the Act of March 3, 1879. Subscriptions: United States and Pan America, $3.00 a year; $5.00 two years; foreign countries $5.00 a year; single copy 50c.

. EDITORIAL NOTES .

ENGINEERING SOCIETY

Reflecting the accelerated national emphasis on science and engineering, membership in the country's oldest professional engineering organization, the American Society of Civil Engineers, increased to an unprecedented 41,377 in fiscal 1958, according to an annual report of the Society.

This was an increase of 1,354 over the previous year, and the roster of the Society has been growing substantially since the end of World War II, when the enrollment was about 21,000.

The Society participated in three international engineering conferences during the year, which were aimed at world unity in engineering. One of the co-sponsors of the sixth annual assembly of the Conference of Engineering Societies of Western Europe and the United States, held in New York, the Society was named as the official secretariat of the international organization for the next two years. It also participated in the fifth convention of the Pan-American Federation of Engineering Societies, in Montreal, and in the Congress of the International Commission on Large Dams in New York. It also lent financial assistance to the World Power Conference, held in Montreal.

With almost forty per cent of its membership employed by municipal, state and federal governments, the Society's Committee on Engineers in Public Practice have launched an extensive program to remove "inequities" in the Federal Classification Act pertaining to grade and salaries.

As a result of the thorough study of the administration's proposal for Federal Aid to Education, particularly in regard to awarding scholarships to students in science and engineering, the Society has endorsed a policy which stipulates that any federal outlay of funds for education in science and engineering should be earmarked for teaching fellowships and grants, rather than undergraduate scholarships. The investigations by the Society clearly indicate that the lack of scholarships was not a deterrent to furthering education in these fields, but that graduate study should be encouraged.

In conclusion the report reveals that there is a substantial increase in the number of engineers throughout the nation who now hold professional engineering licenses.

* * *

WHY USE ASTM STANDARDS?

American Society for Testing Materials specifications, definitions and methods of test should be used as standards for engineering materials because they are competent, unbiased, widely applicable, and authoritative.

They are based on the best commercial practice, on adequate scientific research, and on sound engineering judgment. Each standard is formulated and recommended by a standing committee composed of well-informed technologists on the subject in question.

ASTM standards are unbiased as each standing committee charged with the development or supervision of standards having a commercial bearing is made up of approximately equal representation of producing, consuming and general interests, the latter including engineering consultants, schools, independent research institutes, governmental technical agencies, and others.

The specifications have as their primary objective "The promotion of knowledge of the materials of engineering, and the standardization of specifications and the methods of testing," that have been developed during the past fifty years.

* * *

EQUAL RIGHTS

There was a time when "equal rights" was applied to the social, business, and political differences of men and women, with the generally accepted concept being that there was a "man's world" and the woman's place was "in the home. Today such a philosophy would be considered archaic.

Today, possibly "equal rights" could be similarly applied to labor turbulence with the "right" of one element being aided and abetted by political interference, while the "right" of another factor is limited and curbed.

A rise in labor turbulence and strikes has been predicted for 1959.

We are told "The workers' right to strike is an integral part of the working of a free society." But how much freedom do people have who are struck against. What were the "rights" of the thousands of people who failed to get home during the Thanksgiving and Christmas holidays because of airline strikes? What became of the "rights" of the public and the Constitutional freedom of the press when a few mailers or deliverymen held up the publication and distribution of nine daily newspapers in New York City recently?

Is the right to strike unconditional? Who created the right? Does the public have any rights? How about those being struck against?

It seems to us the situation is about ready for some logical solution wherein everyone concerned gets an equal right, and equal consideration.

Thirteen-Story Addition STANDARD FEDERAL SAVINGS and LOAN Association

LOS ANGELES, CALIFORNIA

Constructed at a cost of more than $3,000,000, the 13-story addition will provide 128,000 sq. ft. of additional area to the firm's facilities.

Styling is in keeping with the adjacent building, which will be completely integrated.

Basic construction will be of steel frame with extruded aluminum frame curtain walls used on the exterior. Spandrel panels of porcelain enamel on steel will also feature exterior surfaces.

Welton Becket and Associates, Architects

SOUTHERN CALIFORNIA SMALL CRAFT HARBOR

REDONDO BEACH

Multi-million dollar development of harbor and central business district.

Includes berthing for 1,000 boats and parking accommodations, to be expanded for 2,400 boats and 3100 parking stalls.

Victor Gruen Associates, Architect.

NEWS and COMMENT ON ART

CALIFORNIA PALACE OF THE LEGION OF HONOR

The California Palace of the Legion of Honor, Lincoln Park, San Francisco, under the direction of Thomas Carr Howe, Jr., has announced a number of special exhibitions and events which will be offered during March, including:

SPECIAL EXHIBITIONS: Special exhibits in Watercolors, Drawings and Paintings will be presented in the Museum. Among exhibits at the Achenbach Foundation for Graphic Arts will be a group of Italian Master Drawings from the Foundation collection.

EVENTS: There will be an Organ recital each Saturday and Sunday afternoon at 3 p.m., featuring Mr. Richard Purvis and Mr. Ludwig Altman, organists. Educational activities will include art classes for children and juniors—all classes are free of charge and materials are furnished.

The Museum is open daily.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, is offering the following exhibitions and special activities during the month:

EXHIBITS: "Paintings" by Ward Lockwood; "Dry Prints and Etchings" by Beth Van Hoesen; "Wood Sculpture" by Bruno Groth; "Drawings" by Rudolph Wilke (1873-1908); "Oils, Watercolors and Drawings" by Ulfert Wilke.

"Pea-pods and Insects" by Jan Van Kessel, Flemish (1626-1679) is a recent addition, the gift of Mr. and Mrs. Richard S. Rheem.

ACTIVITIES: Classes in Art Enjoyment include "Exercises in Oil Painting" and "Seminars in the History of Art" for adults; and "Picture Making," "Art and Nature" and the "Art Club" for children.

The Museum is open daily.

ARCHITECTURAL GALLERY

The Architectural Gallery in the Building Center, 7933 West Third Street, Los Angeles, has been featuring a "Special Exhibition" of the work of Architects H. L. Gogerty, F.A.I.A., Associates, as well as a special exhibition of Concrete Screen Block-Patterns and Construction prepared by the General Concrete Products, Inc. of Los Angeles.

OAKLAND ART MUSEUM

The Oakland Art Museum, 1000 Fallon Street, under the direction of Paul Mills, Curator, is presenting an unusual variety of exhibitions at this season of the year, among them being—

EXHIBITIONS: European and American Paintings from the Museum Collection, offering a selection of the finer older European and American paintings in the Maganini, Porter, Clark and other collections; Painting by Arthur Okamura, an exhibit of the work of the noted young abstractionist and visiting professor of painting at the California College of Arts and Crafts; Ceramics from the Rietz Collection, a selection of ceramics and other objects from the Carl Rietz collection.

SPECIAL ACTIVITIES: Special programs are offered each Wednesday evening at 8:30 p.m. A new discussion group is just starting "Introduction to Humanities," sponsored by the University of California Extension Division, to extend ten weeks during which time the group will explore a variety of art forms including music, literature, poetry and the arts. Discussions will be augmented by a series of art reproductions prepared by the University Extension, paintings from the museum collection, and selected musical recordings.

The Museum is open daily.

WOOD SCULPTURE BY BRUNO GROTH SHOWING AT deYOUNG MUSEUM

An exhibition of Wood Sculpture entitled "Seeds of Contemplation" by the contemporary California artist Bruno Groth is currently being shown at the M. H. deYoung Memorial Museum in Golden Gate Park, San Francisco.

These works represent the sculptor's search for a "Realization of form that is somehow already within the wood—the universal spirit imminent in the artist and in the wood."

Bruno Groth carves in redwood, myrtle, dogwood, cascara, buckhorn and a variety of other woods indigenous to his forest ranch near Eureka where he has lived for the past twenty years.

Upon the occasion of an exhibition of his earlier sculpture in New York, "Arts" commented: "Without consideration of cryptic significance, Groth's command of form, whether in carving or modeling, is evident. The easy flow of sequential planes, the grace of continuous contours and the revelation of inner life through bodily gesture is discernible in all his work." This present exhibition is the first showing of his recent sculpture.

His first pieces to be exhibited in the Bay Area were his sculptured salad bowls in the de Young Museum's "Designer-Craftsmen of the West, 1957" exhibition—pieces which were later selected for display

at the Brussels World Fair.

"Seeds of Contemplation — Sculpture by Bruno Groth" will remain on view at the de Young Museum through March 22.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, under the direction of Grace L. McCann Morley, will feature a wide variety of special art exhibitions and activities during this month, including:

EXHIBITIONS: One of the highlights of March will be the wide variety of material featured in the "Spring Rental Gallery." Another outstanding exhibition is "After Surrealism" which will be shown until March 22.

SPECIAL EVENTS: Will include lectures, social gatherings, and musical concerts.

The Museum is open daily.

WARD LOCKWOOD PAINTINGS AT deYOUNG MEMORIAL MUSEUM

A selection of Paintings by Ward Lockwood, nationally known Bay Area artist and teacher, executed during 1957-58 in polymer tempera, are now being shown at the M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco.

In a foreword to the catalog of a recent exhibition of Lockwood's paintings, Mr. Patrick J. Kelleher, Curator of European Paintings at the William Rockhill Nelson Gallery of Art, Kansas City, Missouri, said:

"These paintings reveal Ward Lockwood's penetrating response to the tempo of the 20th century. Strong and dynamic, these works explore a universe in flux. Their rich flowing areas of expressive color range from the strongly emotional to the coolly intellectual. Ward Lockwood creates in them a vibrant world filled with poetic overtones. The evocative titles allow the observer to enter into the realm of imagination and reveal the artist to possess a highly creative intelligence and strong sensitivity to the expressive values of our time."

In 1948 Ward Lockwood joined the staff of the art department of the University of California at Berkeley where he is now Professor of Art.

For over a generation Ward Lockwood has occupied a significant role in American art as both painter and teacher. Prior to his present post at the University of California he taught art at what is now the Colorado Springs Fine Arts Center and was largely instrumental in organizing the department of fine arts at the University of Texas.

Paintings by Ward Lockwood will remain on view at the deYoung Museum through March 22.

EXHIBITION OF PRINTS BY BETH VAN HOESEN AT deYOUNG

Beth Van Hoesen, who has been termed one of America's most promising young artists, is exhibiting a collection of her "Dry-points" and "Etchings" at the M. H. deYoung Memorial Museum, this month.

The artist is devoted to the expressiveness of line and she has a capacity to interpret what she sees, according to critics, with the utmost simplicity, charm, clarity and skill. In working the artist plans a basic composition for her landscapes, portraits and still lifes, then proceeds to draw on the copper plate from dozens of preliminary sketches. But often, as when she renders landscapes, she draws spontaneously on the plate directly from the subject. Her techniques include drypoint, engraving and etching.

Beth Van Hoesen was born in Boise, Idaho in 1926, graduated from Stanford University and studied art in both Europe and Mexico as well as at the San Francisco State College.

A.I.A. AND "SUNSET" SPONSOR HOME AWARDS

Any home in the West designed by a registered architect and completed since January, 1956, is eligible for entry in the second biennial Western Home Awards program, sponsored by the Western chapters of the American Institute of Architects and Sunset magazine.

The purpose of the competition is to single out architects, builders and owners of outstanding homes recently built in the Western states and Hawaii. The program will be patterned after the initial 1957-1958 program, in which 28 outstanding houses were selected as Award winners.

Entries will be accepted from Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming. They will first be judged in three regional groupings —Pacific Northwest, Desert-Mountain, and California-Hawaii. Separate Awards of Merit will be given for top home designs in each group. All-Western Honor Awards will then be made for the outstanding homes in the entire West.

Awards will be judged by a jury of distinguished persons representing the fields of architecture, landscape architecture, planning, building, and publishing. Announcement of the award winners and presentation of award certificates will be made at the regional conferences of the A.I.A. in the fall.

The Awards Committee is made up of the three Western Directors of the American Institute of Architects—Ulysses Floyd Rible of Los Angeles, Director of the California District; Frederick H. Porter of Cheyenne, Wyoming, Director of the Western Mountain District; Donald J. Stewart of Portland, Oregon, Director of the Northwest District—and Proctor Mellquist, Editor of Sunset.

Skaggs and Kirchman, General Contractors

A VIEW HOME OVERLOOKING SAN FRANCISCO BAY

TIBURON-BELVEDERE, CALIFORNIA

BY JOHN E. BROWN

Strucural Engineer

"As far as gardening is concerned, I've had it!"

For Pete Macgowan, San Francisco designer, this was the summation of four years of living in a tract house. Neither Pete nor his charming wife, Barbara, could work up the conventional enthusiasm shared by so many urbanites. Tilling the soil was not for them. And Pete was at an impasse with any kind of grass that had to be mowed.

Pete acquired a nice lot with a view in the Tiburon-Belvedere area of Marin county. It was one acre of ground with a forty degree slope and all the landscape and garden Pete needed; a nice grove of oaks, a picturesque little ravine on one side; wild berries and plenty of wild grass that didn't have to be mowed.

"I decided right off to leave everything on this lot just the way it was." Pete and structural engineer, John E. Brown of San Francisco, designed his house to accommodate spacious areas of living, working and leisure time for his wife and their two sons. But to place a house on a lot without disturbing the terrain is not an easy thing, particularly when the lot has many elevations and a variety of slopes, some as high

as 40 degrees.

To build on this lot with conventional foundations would mean a lot of scooping and filling, and besides leaving the landscape au naturel, there were also costs to consider. Pete and Brown solved both of these problems with structural steel which they used to support the house on the downhill portion of the lot. Very little earth had to be moved; only to terrace and allow for the foundation of reinforced concrete grade beams. On the uphill portion, a conventional continuous wall foundation could be used without cutting back half of the hillside or using an elaborate retaining wall. On six pads tied into the spread footings of the grade beams, 4-inch diameter standard pipe columns were seated.

These supported steel girders composed of 10-inch wide flange sections weighing 25 pounds to the foot.

Field erection of the steel was simplified by shop fabricating the steel girders so that they could be slid down the hill to the job site in pieces, bolted together on the ground and landed on the columns with a simple "A" frame rig. All connections were made by bolting.

"Besides saving us all kinds of time, steel made for cleaner design. Framing up to it with wood was easy, and we gained more covered space with this open type foundation," according to Bob Kirchman, general contractor.

A wooden 2 by 6 was bolted to the top flanges of the beams as a nailer. Wooden 3 by 12 girders were then fastened to this on 4 foot centers and covered by a decking of 2 by 6 tongue and groove.

The decking, the girders, and the rigid steel frames provide a bridge supporting the two floors of the structure on the downhill side for a distance of 61 feet along the front and 16 feet to the continuous foundation wall. An additional cantilevered deck over 4½ feet wide surrounds the lower portion of the house on three sides. The forward edge of the cantilevered deck is 15 feet above grade in some sections, giving it a breath-taking overhang as well as limitless view.

Macgowan's house, by leaving the lot undisturbed, makes spectacular use of sunlight and view. The house boasts of two decks. The lowest is cantilevered over the steel 4½ feet and runs around on the three sides of the

(See Page 32)

DETAILS OF FRAMING WOOD TO STEEL

Ten-inch wide flange sections weighing 25 pounds to the foot were slid down steep lot and bolted into one 61-foot long supporting beam before being lifted into position and landed on a 4-inch diameter steel pipe column.

Before lifting into place, a 2 by 6 wood nailer was bolted onto the top flange of cantinuous beam. Wooden 3 by 12 floor joists were fastened with nails and angle grips.

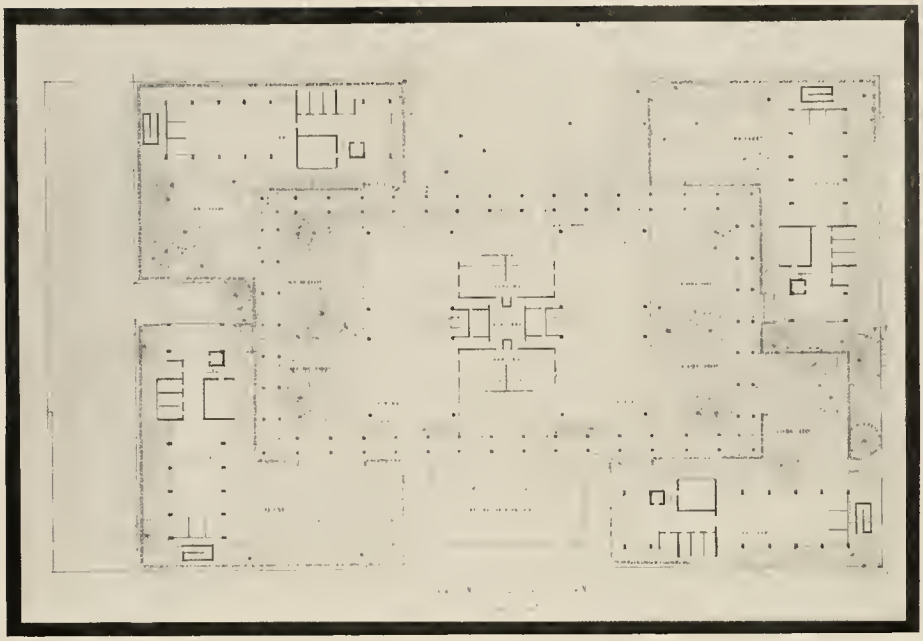
UNIVERSITY OF CALIFORNIA RESIDENCE HALLS, Units 1 and 2, with Memorial Stadium in foreground. Berkeley residential area in rear.

REVIEWING THE WORK OF THE
DINWIDDIE CONSTRUCTION CO
45 YEARS OF BUILDING—FOR A BETTER WORLI

BY FRED JONES

From Twin Peaks on a bright cloudless day, San Francisco's skyline presents a picture of matchless beauty. Since the disastrous fire in 1906, the skyscraper has dominated the business and financial area. One of the first of this type of building was the Russ, a 32-story structure on Montgomery Street, between Bush and Pine Streets. The contractor for this "first" commercial building to take its dominating place in San Francisco's financial district skyline, was the Dinwiddie Construction Company. In more recent years Montgomery Street was again selected as the site of another lofty building and the Equitable Life Assurance Society building was erected at the corner Montgomery and Sutter Streets, again the gener contractor was the Dinwiddie organization. Toda other skyscrapers are being erected by other contra tors in the same "financial district" locality at the ra of one or more a year.

In Oakland, the Dinwiddie Construction Compan built the 14-story Pacific Telephone Building whic received The American Institute of Architects Awar of Merit against national competition. Also in Oa land, Dinwiddie built the recently completed 15-sto Financial Center office building which occupies one



FLOOR PLAN

U.C. Residence Hall under construction on Berkeley campus.

Warnecke & Warnecke, Architects

the major street intersections in "downtown" Oakland.

Someone has said that in San Francisco there is hardly a down-town street that hasn't one or more Dinwiddie built buildings on it, i.e. Macy's Department Store, Childrens' Hospital additions, Grace Cathedral, Hartford Insurance Company, Crocker Bank alterations, Emporium Warehouse, the beautiful white marble I. Magnin building at Geary and Stockton streets, and Sacks Fifth Avenue Store on Grant Avenue.

Out of town projects completed or under construction include the Marchant Calculating Internatinal headquarters, Crocker-Anglo Bank and the Sunshine Biscuit factory, Oakland; Berkeley High School Audi-

ARCHITECTURAL RENDERING of the U.C. Residence Halls.

torium, University of California buildings, Berkeley, William Wrigley factory, Santa Cruz, Stanislaus County Court House, Eureka, United Air Lines hangar, Lockheed missile center, Sunyvale, Capwell stores in El Cerrito, Hayward and Walnut Creek and Emporium stores, Palo Alto and Santa Clara.

Three Major Projects

In recent months at least three major projects have kept the Dinwiddie organization going at top speed. They are the University of California group of buildings, the Lockheed missile center and the United Air Lines jet age hangar. The latter project is a $10,000,000 undertaking and of special interest structurally becuse of its unusual engineering features. The **Architect and Engineer** presented a technical description of this building in its June issue of last year. The article referred to the project as a spectacular undertaking. It is a double cantilever structure with a three story concrete core for mechanical and maintenance shops, company offices and general store rooms. Inclined trusses are used and the roof is supported by seven plate girders resting on pillars which inclose the core. Each girder is 365 feet long and weighs 125 tons. The girders were fabricated in Los Angeles and trucked to the building site at night to escape the heavy daytime traffic.

Progress pictures and a late photo of the exterior of the hangar are shown. There are some slight changes to be made to the outside of the structure, according to the architects, Messrs. Skidmore, Owings & Merrill.

The photographs show good progress being made on the Residence Halls and Statewide Office Building for the University of California at Berkeley. Photos of the architect's models give an excellent idea of how the finished projects will look. The selection of architects

CONSTRUCTION PROGRESS VIEW of U.C. Residence Halls.

U.C. RESIDENCE HALLS—view looking southeast.

was made by competition. Seven firms were named by John Lyon Reid, who was appointed by the University to aet as profesional advisor and to arrange the program.

Participating were Welton Becket & Associates, Gardner Dailey, Vernon De Mars, Joseph Esherick and Ernest Kunm in association, John Funk and Kitchen and Hunt in association, Pereira and Luckman, Warnecke and Warnecke and Weihe, Frick & Kruse.

By secret ballot on August 14, 1956, the entry of Warneckc and Warnecke was unanimously selected by a jury composed of Mrs. Dorothy B. Chandler, Regent of the University, Pietro Bellusehi, F.A.I.A., John Eken Dinwiddie, Dean of Architecture, Tulane University, Farnham P. Griffiths, former Regent of the University of California, and Paul Thiry, A.I.A.

Program for Competition

The following is a summary of the program:

(See Page 17)

VENETIAN BLINDS
VERTICAL and HORIZONTAL
Made of Spring-Tempered Aluminum
"Plastic Lume"
The Ultimate in Window Beauty
Paramount
Venetian Blind Mfg. Co.
5929 MISSION STREET
JUniper 5-2436

ELECTRICAL WORK
U. C. Residence Halls
Berkeley, by
SUTTON & FROST ELECTRIC CO.
532 Natoma St., San Francisco
Phone: UN 1-4685
5443 E. Washington Blvd., Los Angeles
Phone: RA 3-9463

UNIVERSITY OF CALIFORNIA

Statewide Office Building in Berkeley, California, designed to meet modern executive activities of a large educational institution.

Warnecke & Warnecke, Architects

PACIFIC SCHOOL OF RELIGION CHAPEL

Berkeley, California

Embodies variety of madern building materials, in beautiful setting.

MASONRY WORK
and Ceramic Veneer

U.C. RESIDENCE HALLS
and
STATEWIDE OFFICE BUILDING

ROBERT LANGEBERG CO.
100 Selkirk Street, Oakland 2
Phone: KE 3-0854

PLUMBING
on the U.C. Statewide Office Building, Berkeley

by

JOSEPH L. TANCREDY, Inc.
910 81st Ave., Oakland 21, Calif.
Phone: LO 9-8338

CAPWELL'S STORE, EL CERRITO, CALIF.

Welton Becket & Associates, Architects
Dinwiddie Construction Co., Contractors

Canopy and Entrance
by

Kawneer

ARCHITECTURAL METAL PRODUCTS

Richmond, Calif. • Niles, Michigan

THREE CAPWELL STORES

Designed by Welton Becket and Associates

TOP VIEW is at the new store in Walnut Creek, California.

AT LEFT is the recently completed store in El Cerrito, California.

BELOW is the Capwell store in newly developed Hayward (California) Shopping Center.

NEW PLANT of the Marchant Company, Oakland, California.

(From Page 13)

1. Eight hundred and forty students to be housed in four self-contained units; the units to be inter-connected to form a well articulated building or building group; each unit to be planned so that groups of approximately thirty to forty students will form smaller social groups.

2. The four self-contained units of two hundred and ten students each to be served by a single recreation room; a single group of administrative offices, a single maintenance shop and a single kitchen.

(See Page 21)

Heating, Ventilating
Air Conditioning
United Air Lines
Hangar
Marelich Mfg. Co., Inc.
44 Layne Place
San Bruno, Calif.

IT HAS BEEN A PLEASURE
TO CALL
DINWIDDIE
CONSTRUCTION CO.
OUR CUSTOMER.
COOPMAN
Electric Co.
41 - 14th St. San Francisco MA. 1-4438

PLUMBING • HEATING
Ventilating • Air Conditioning
IN THE
U. C. RESIDENCE HALLS
BY
J. B. NETTLES & CO., INC.
BUTLER ROAD, SOUTH SAN FRANCISCO
Phone: PL 6-4455

SALVATION ARMY OFFICERS TRAINING COLLEGE
San Francisco, California

CROCKER FIRST NATIONAL BANK BUILDING
Oakland, California
Milton T. Pfleuger, Architect

TESTING & INSPECTION OF ALL ARCHITECTURAL AND CONSTRUCTION MATERIALS

Metallurgists • Chemists
Radiography

Tests and Investigations of Foundation Soils

PITTSBURGH TESTING LABORATORY

651 HOWARD ST. SAN FRANCISCO 5
Phone: EXbrook 2-1747

Branch Office—741 W. 3rd St., Reno, Nevada

Offices in all principal cities in the United States

LUMBER

ON THE

UNITED AIR LINES HANGAR

Dinwiddie Construction Co.
General Contractors

SUPPLIED BY

Art Hogan Lumber Co.

1701 Galvez Ave., San Francisco
Phone — AT 2-1157

BERKELEY HIGH SCHOOL AUDITORIUM

Berkeley, California

An outstanding example of modern school architecture.

Corlett, Anderson—Gutterson, Architects.

STEELFORMS

for

CONCRETE JOIST CONSTRUCTION
ROUND CONCRETE COLUMNS
BEAM and SLAB and FLAT SLAB CONSTRUCTION

Steelform Contracting Co.

SAN FRANCISCO • LOS ANGELES • SEATTLE

E. M. HUNDLEY HARDWARE CO.

Specialists in

BUILDERS HARDWARE

666 MISSION STREET
SAN FRANCISCO
Phone: YUkon 2-3322

UNIVERSITY OF CALIFORNIA EXPANSION

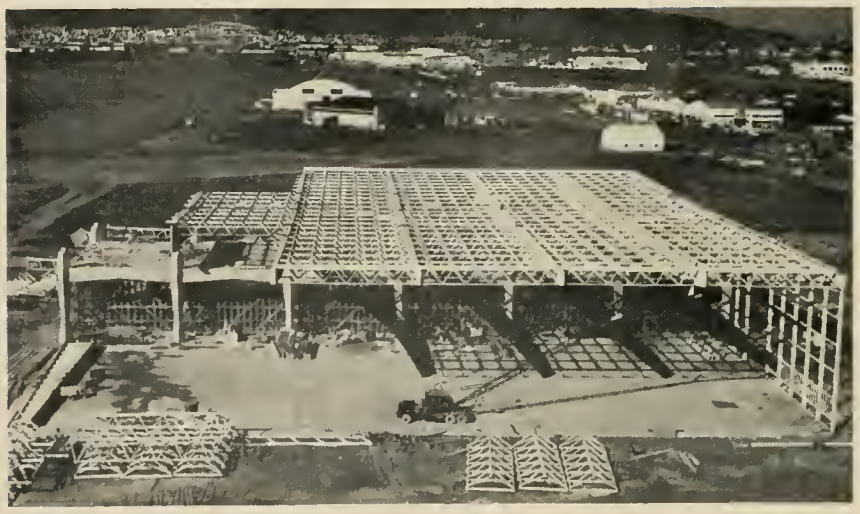
Two Major Sub-Contracts By Toland:

Miscellaneous and Ornamental Metal, Wire Partitions and Wire Work on the Statewide Office Building. Also, miscellaneous iron on Residence Halls, Berkeley. Dinwiddie Construction Company, General Contractors.

C. E. TOLAND & SON

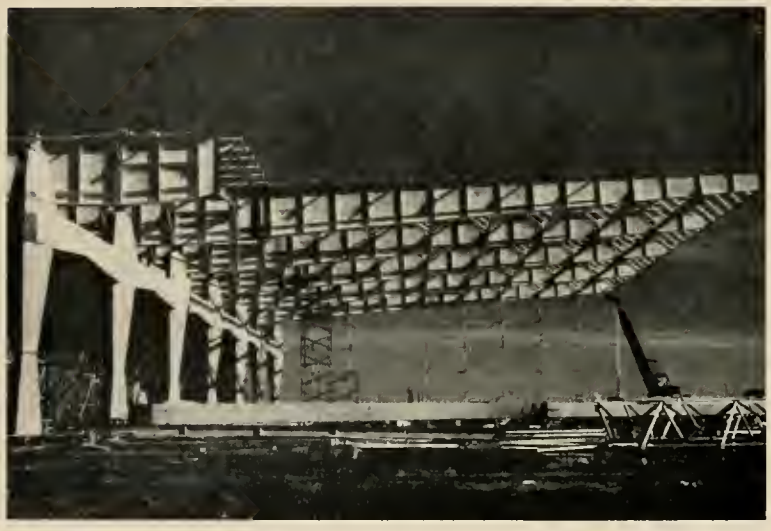
2635 PERALTA STREET
OAKLAND 7, CALIFORNIA
PHONE: GLENCOURT 1-7142

. . . DINWIDDIE CONSTRUCTION CO.



UNITED AIR LINES

Jet Maintenance Hongar at the Internatianal Airport, San Francisco.



TOP VIEW: Shows wide expanse of facility, with—

CENTER VIEW: Installatian of steel roof girders to allow apen area beneath, and—

BELOW: Completed building as it now appears.

Skidmore, Owings & Merrill, Architects and Engineers

UNION OIL COMPANY
CONTROL LABORATORY

Constructed at Oleum, California, it represents one of the nation's most modern technical facilities.

Austin, Field & Fry, Architects

(From Page 17)

3. Four dining rooms (one for each of the self-contained units) to be arranged in two pairs; each pair separately or together, to be served from the central kitchen.

Description of the Design

The Residence Hall is located on a small lot– 2.7 acres—south of the University campus, in a densely populated, residential area.

WE ROOFED

the following Projects for
Dinwiddie Construction Co.

LOCKHEED, SUNNYVALE
U. C. RESIDENCE HALLS
U. C. STATEWIDE OFFICE BUILDING

Malott mp + Peterson

Fifth & Virginia Sts., Berkeley Phone: LA 6-8886

UNION OIL COMPANY CONTROL LABORATORY, OLEUM, CALIF.

Laboratory Furniture

BY

Laboratory Furniture Co., Inc.

115 New Montgomery St.
San Francisco 5, Calif.

Old Country Road
Mineola, N. Y.

. . . DINWIDDIE CONSTRUCTION CO.

MACY'S DEPARTMENT STORE

In heart of San Francisco.

(Note famed Union Square Park in upper right, built over garage. White marble building is the I. Magnin & Co.)

W. P. Day, Architect

PRECAST CONCRETE GRILLS

on the

U. C. RESIDENCE HALLS

•

Dinwiddie Construction Co.,
General Contractors

•

Manufactured & Installed by

George P. Forni Incorporated

Pre-cast and Pre-stressed Concrete

1379 62nd Street, Emeryville 8
Telephone: OLympic 2-7410

The design has taken into consideration two scales which are already present in the community. One, low and informal in character, is established by the single family residences set back in the gardens along the tree-lined streets. The other is the scale established by high-rise, multiple-unit apartment buildings which are found throughout the area and whose number is likely to increase.

The main level of the Residence Hall scheme main-

MASONRY

on Capwell's El Cerrito Store

by

JORGENSEN MASONRY, INC.

610 16th Street, Oakland 12
TE 2-6339

460 Park St., San Jose
CY 2-6987

WM. WRIGLEY, Jr., Campany manufacturing plant at Santa Cruz.

Victor L. Charm, Architect

tains the low scale, the openness and the informality.

Four nine-story residence units are arranged along the periphery of the site. The code of tall towers, limited in height to a 75 foot maximum by a local building code, allowed a large and well-defined, outdoor space to be created.

The main floor of each unit has a large living room that opens onto its own court; a library; three multi-purpose rooms; a restroom; as well as a lobby which is entered from the court side. Above this main floor

WE **WIRED**

UNITED AIR LINES' HANGAR

for

Dinwiddie Construction Co.

SCOTT-BUTTNER ELECTRIC CO.

896 West Grand Ave., Oakland 7

Phone: GL 1-1542

OUR 76th YEAR

D. ZELINSKY & SONS

PAINTING AND DECORATING CONTRACTORS

SAN FRANCISCO

WE ARE PLEASED TO HAVE WORKED WITH THE DINWIDDIE CONSTRUCTION CO. ON SO MANY OF THEIR FINE PROJECTS.

are eight floors of student rooms. Each room has an area of 182 square feet and will be shared by two students. A study room on every other floor will form a focus for small social groups.

A low building with a graceful roof was placed in the interior space formed by the residence units. On the court level, this building contains four dining rooms grouped around a central kitchen. Below are the scullery, administrative offices and two large recreation rooms with their own sunken courts. By keeping a uniform main level throughout the complex, the natural slope of the site will permit direct access of service traffic, passing under the circulation of the main level, to the basement floor of the central building.

The divisions of the large court formed by the central building were developed into outdoor extensions of the adjacent living and dining rooms. Landscaping and trees will give these minor courts a desirable amount of privacy. The sense of one large space will

(See Page 30)

ISLAIS CREEK Grain Elevotor,
San Francisco, California

MECHANICAL REFRIGERATION EQUIPMENT

in the University of California
Residence Halls

Installed by

J. D. MARINE COMPANY

3871 Piedmont Ave., Oakland
Phone: OL 5-7764

It has been a pleasure

working with

DINWIDDIE
Construction Co.

GENERAL CONTRACTORS

on many

of their splendid projects.

★

GEORGE W. REED & CO.

Masonry Contractor

1390 South Van Ness Avenue

San Francisco **ATwater 2-1226**

MISCELLANEOUS IRON
AND
METAL WORK

Lockheed . . . Sunnyvale
Capwell's Store . . . El Cerrito

by

STAR IRON WORKS

227 Bay Street San Francisco

LATHING AND PLASTERING

INFORMATION

Sponsored by the following Cooperative Groups

GOLDEN GATE LATHING AND PLASTERING INSTITUTE
850 S. Van Ness Avenue, San Francisco 10, ATwater 2-8220. Servicing San Francisco County.

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street, Oakland 12, GLencourt 2-0313. Servicing Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue, San Carlos, LYtell 3-2634. Servicing San Mateo and Santa Clara Counties.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16, GLadstone 1-1879. Servicing Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

MUD—this is the affectionate and somewhat disrespectful name given to that most versatile, colorful and durable building material more accurately known as PLASTER.

By GEORGE R. D. ESTCOURT
Executive Secretary
NORTH COAST PLASTERING INDUSTRIES, INC.
965 East San Carlos Avenue
San Carlos, California

There are many kinds of plaster materials but it is intended here to describe that geological genie, "Gypsum", from which interior plasters are made.

The basic ingredient of all gypsum products is a rock—usually white, but sometimes pink, yellow, brown or even black in color—with a dual personality. It is a mineral with the formula $CaSO_4.2H_2O$.

When the dry rock has been ground into a material about as fine as face powder, and heated to approximately 250°F it boils like a thick soup. Small bubbles appear on the surface, break and release steam. This is the process known as releasing the "locked-in" moisture, or water of crystallization. When 75% of this water has been driven off the boiling subsides, and in this calcined state the material has a number of names. To plant personnel it is stucco; to a chemist it is calcium sulphate hemihydrate; to a dentist it is plaster of Paris; and a plasterer may refer to it as compound, dope, mud or just plain plaster.

When this calcined powder is mixed with water it gives off heat and in about thirty minutes the paste begins to harden. Gypsum is the only natural substance known to man that can be restored to its original rock-like state by the addition of water alone.

Although this material has many uses, for instance, helping peanuts grow and casting Hollywood movie sets, gypsum is a mystery to the average man on the street.

This is odd because he is surrounded by it for a good part of his life. It is not a recent discovery, having served mankind faithfully and well for thousands of years. At about 3000 B.C. it helped build the Pyramid of Cheops, the only one of the Seven Wonders of the World still standing. The walls within the crypt were plastered with gypsum and upon them artists painted scenes depicting events in the life of the Pharoah. In later years many of the world's most treasured works of art, including masterpieces by Michelangelo and Leonardo da Vinci, were executed with the aid of gypsum powder.

The value of the gypsum as a fertilizer was recognized by the early American Colonists who imported it by the boatload from Nova Scotia. The first native deposit was discovered in New York State in 1792.

Reference is made to the material in the first edition of the Encyclopedia Brittannica published in 1786 under the heading of "Gypsum or Plaster-stone."

While men had known this secret of nature for at least 5000 years it was not until 1835 that the first calcined gypsum was produced in this country. Even then there was not much demand for it simply because it hardened too fast, in approximately thirty minutes. This might be all right for making bric-a-brac or ornaments but it didn't give a plasterer much time to trowel it on a wall and smooth it out.

Gypsum's first big break in fifty centuries came around 1885 when some unknown hero by luck, mishap or experiment learned how to keep it from reverting back to rock so fast. It is not known how this came to pass but it was found that the hardening could be delayed by the use of various additives resulting apparently in the coating of the crystals and delaying their welding-together action. Thus a temperamental material was tamed and its use increased rapidly.

The next problem in the use of this happily newfound ally, gypsum, was brought about because lathers had to nail 1½ inch by 48 inch pieces of wood to studding as a base for plaster. This was a slow process, so one day some resourceful fellow saturated a piece of

(See Page 32)

CREDITS: Acknowledgement is gratefully given to the National Gypsum Company for much of the information used, and which originally appeared in the March 1957 issue of the National Gypsum News. The assistance of the California Lathing and Plastering Contractors Association and the National Bureau for Lathing and Plastering, Inc., is also acknowledged.

American Institute of Architects

John Noble Richards, President

Philip Will, Jr., 1st Vice-President — Edward L. Wilson, Secretary
Henry L. Wright, 2nd Vice-President — Raymond S. Kastendieck, Treasurer
Edmund R. Purves, Executive Secretary

National Headquarters—1735 New York Avenue, N.W., Washington, D. C.

REGIONAL DIRECTORS—**Northwest District,** Donald J. Stewart, Portland, Oregon; **Western Mountain District,** Frederick H. Porter, Sr., Cheyenne, Wyoming; **California-Nevada-Hawaii District,** Ulysses Floyd Rible, Los Angeles, California.

ARIZONA CHAPTERS:

CENTRAL ARIZONA: A. John Brenner, President (Phoenix); Jimmie R. Nunn, Vice-President, Kemper Goodwin, Secretary; Lester Laraway, Treasurer. Directors: James W. Elmore, Martin R. Young, Jr., David Sholder. Office of Secy., P O. Box 904, Phoenix

SOUTHERN ARIZONA. Edward H. Nelson, President (Tucson); Gerald I. Cain, Vice-President; Robert J. Ambrose, Secretary; David S. Swanson, Treasurer. Directors: Emerson C. Sholer, D. Burr DuBois, Santry Fuller. Office of Secy., 2447 N Stone, Tucson.

COAST VALLEYS CHAPTER:

William L. Higgins (San Jose), President; Paul J. Huston (Palo Alto), Vice-President; William H. Daseking (Menlo Park), Treasurer; Edward N. Chamberlain (San Jose), Secretary. Office of Secy., 390 Park Ave., San Jose.

CENTRAL VALLER OF CALIFORNIA:

Joseph J. Jozens, President (Sacramento); Armsby Tod Hart, Vice-President; Albert M. Dreyfuss, Secretary; Whitson W. Cox, Treasurer. Office of Secy., 2127 "J" St., Sacramento.

COLORADO CHAPTER:

Casper F. Hegner, President: C. Gordon Sweet, Vice President; Norton Polivnick, Secretary; Richard Williams, Treasurer. Directors: James M. Hunter, Robert K. Fuller, Edward L. Bunts. Office of Secy., 1225 Bannock St., Denver, Colorado.

EAST BAY CHAPTER:

George T. Kern, President; W. Roland Gibbs, Vice-President; Frank Lockwood, Secretary; Arthur Iwata, Treasurer. Directors: Robert J. Gianelli, Robert Oyarzo, Gerald McCue. Marjorie Montgomery, Exec. Sec'y. Office, Mezzanine, Hotel Claremont, Berkeley 5.

IDAHO CHAPTER:

Jed Jones, III, President (Boise); Clint Sundberg, Vice-President (Idaho Falls); Rod J Grider, Sec-Treas. Director, H. Curtis Finch, Charles W Johnston. Office of Secy., 205 N. 5th, Boise.

MONTEREY BAY CHAPTER:

Robert Stanton, President (Carmel); Walter Burde, Vice-President; William L. Cranston, Secretary; George Kuska, Treasurer. Office of Secy., P.O. Box 1846, Carmel.

MONTANA CHAPTER:

William J. Hess, President (Great Falls); John E. Toohey, Vice-President (Billings); H. C. Cheever, Secy.-Treas. (Bozeman). Directors: Oscar J. Ballas, Wm. J. Hess, John E. Toobey. Office of Sec., Bozeman, Montana.

NEVADA CHAPTER:

RENO: Howard Brandis, President; Russell Clopine. Vice-President; Ralph A Casazza, Secretary; John Crider, Treasurer. Directors: Graham Erskine, George L. F. O'Brien, Lawrence A. Gulling, Albert Alegre. Office of Secy., 232 W. 1st. St., Reno.

WOMEN'S ARCHITECTURAL LEAGUE: (Reno) Eileen Casazza, President; Jane Brandis, Vice-President; Jane Mathews, Secy., Enid Hellman, Treasurr.

LAS VEGAS: Walter F. Zick, President; Aloyius McDonald, Vice-President: Edward B Hendricks, Secy.-Treas. Directors: Walter F. Zick, Edward Hendricks, Charles E. Cox. Office of Secy., 106 S. Main St., Las Vegas.

NEVADA STATE BOARD OF ARCHITECTS:

Russell Mills, Chairman (Reno); Aloysius McDonald, Sec-Treas. Members: L. A. Ferris, Elmo C. Bruner, Edward S. Parsons. Office, 1420 S. 5th St., Los Vegas.

NORTHERN CALIFORNIA CHAPTER:

Donald Powers Smith, President; Corwin Booth, Vice-President; Joseph Esberick, Secretary; Richard S. Banwell, Treasurer. Directors: John W. Kruse, John L. King, Alexander Yuill-Thornton, Andrew Hass. May B. Hipshman, Exec.-Sec'y. Office, 47 Kearny St., San Francisco.

ORANGE COUNTY CHAPTER:

William T. Jordan, President (Costa Mesa); Donald M. Williamson, Vice-President (Laguna Beach); J. Herbert Brownell, Secretary; Rumont W. Hougan, Treasurer. Office of Secy., 1950 W. Coast Highway, Newport Beach.

OREGON CHAPTER

Albert W. Hilgers, President; Robert C. Douglas, Vice-President; Everett B. Franks, Secretary; John W. Foster, Treasurer Directors: Norman C. Zimmer, Joseph J. Rudd, John K. Dukehart, Donald W. Edmundson, Daniel McGoodwin. Office of Secy., 512 McKay Bldg., Portland 4.

PASADENA CHAPTER

"The New Age of Architecture," a documentary film featuring the work of architects Frank Lloyd Wright, Mies van der Rohe, Edward Stone, Wallace Harrison and Eero Saarinen, featured a recent meeting of the Chapter.

CALIFORNIA COUNCIL, A.I.A.

John Noble Richards, national president of the A.I.A., attended a recent Board meeting in Fresno, California, sponsored by the San Joaquin Chapter, A.I.A.

An exhibition of California junior college architecture was arranged in conjunction with the combined annual convention of the American Association of Junior Colleges, California Junior College Association, and the Southern California Junior College Association, recently held in Long Beach.

EAST BAY CHAPTER, A.I.A.

A "Special Guest" Dinner, honoring John Noble Richard, F.A.I.A., of Toledo, Ohio, and president of The American Institute of Architects, was recently held at the Hotel Clarement in Berkeley, with architects from many Northern California A.I.A. chapters in attendance.

During March members participated in a plant tour of the Prescolite Manufacturing Corporation in Berkeley.

Recent new members include: Kempton Russell, Thomas Stebinger and Herber E. Lembcke, Junior Associates.

STATE ARCHITECTURAL EXAMINERS

The California State Board of Architectural Examiners recently sponsored a meeting in Sacramento of representatives of the California Society of Designers, The American Institute of Building Design, and the California Council A.I.A., to discuss differences in their separate legislative programs.

SAN FRANCISCO ARCHITECTURAL CLUB

Al West, Aluminum Company of America, presented and discussed a motion picture film at a recent meeting, relating to the application of new aluminum finishes.

WASHINGTON STATE CHAPTER, A.I.A.

"Our Northwest Indian Heritage" was the subject of a talk by Dr. Erna Gunther, Director of the Washington State Museum. An exhibition of varied Coastal Indian dances and an exhibit of artifacts were included in the program held in the Seattle Yacht Club.

The March meeting is scheduled as a joint meeting with the Southwest Washington Chapter.

Recent new members include: Donald Warren Bogard, H. Leed Carmean, John W. Dickinson, Keith A. Jacobson, Morris R. Jellison, Milton D. Latourell, Charles H. Schiff, James A. VanDrimmelen, and James E. Zervas, Associate Members.

NORTHERN CALIFORNIA CHAPTER, A.I.A.

Edmund V. Laitone, Professor of Aeronautical Science at the University of California, was the principal speaker at a recent joint meeting of the Chapter and Structural Engineers Association of Northern California, in the Fairmont Hotel in San Francisco.

Prof. Laitone discussed "Satellites, Space Probes, and Space Travel," the why, wherefore and how of interplanetary space exploration and some of his experiences and observations during the past 20 years that he has been identified in the field.

Recent new members include: George A. Agron, John P. Schagen, John H. Calef, Leonard Michaels, and George Kennaday, Corporate Members. Junior Associates Rai Okamoto, Donald Price, Frank Barsotti and John L. Fisher.

OREGON CHAPTER, A.I.A.

Recent meetings were devoted to consideration of By-Law changes and to architectural participation in Oregon's Centennial Celebration. The W.A.L. is planning a Home Tour to feature "100 Years of Architecture in Oregon," also a series of lectures on the "History of Architecture in Oregon."

Recent new members include: Lt. James Grady, Junior Associate.

SOUTHERN CALIFORNIA CHAPTER, A.I.A.

William G. Quinn, who has served as editor of the Bulletin, has resigned as of March 25.

Mrs. Kemper Nomland has been installed as the 1959 president of the Southern California Chapter, W.A.L.

SOUTHERN ARIZONA CHAPTER, A.I.A.

Edward H. Nelson, Tucson, has been elected president of the Southern Arizona Chapter, A.I.A., for the ensuing year. Other officers chosen included: Gerald I. Cain, vice-president, Robert J. Ambrose, secretary, and David S. Swanson, treasurer.

New Associate Member is Larry Bogott.

VICTOR GRUEN, Architect, A.I.A., recently announced opening of enlarged offices at a new address in New York City—Two West Thirtieth Street.

PASADENA CHAPTER:
Edward D. Davies, President; Keith P. Marston, Vice-President, Ward W. Deems, Secretary; Roland L. Russell, Treasurer; and Directors: H. Douglas Byles, Leland L. Evison, Mal Gianni, and Donald E. Neptune. Office 170 E. California St., Pasadena.

SAN DIEGO CHAPTER:
Raymond Lee Eggers, President; William F. Wilmurt, Vice-President; Lloyd P. A. Ruocco, Secretary; Delmar S. Mitchell, Treasurer. Directors: John C. Deardorff, Richard George Wheeler and Sam Bruce Richards. Office of the Secy., 3603 5th Ave., San Diego 3.

SAN JOAQUIN CHAPTER:
Robert C. Kaestner, President (Visalia); William G. Hyberg, Vice-President (Fresno); Lawrence B. Alexander, Secretary; Edwin S. Darden. Office of Secy., 128 E. 8th St., Hanford.

SANTA BARBARA CHAPTER:
Wallace W. Arendt, President (Santa Barbara); Darwin E. Fisher, Vice-President (Ventura); Walter Tibbetts, Secretary; Kenneth H. Hess, Treasurer. Office of Secy., 630 Para Grande Lane, Santa Barbara.

SOUTHERN CALIFORNIA CHAPTER:
Maynard Lyndon, President; A. Quincy Jones, Vice-President; Howard Morgridge, Secretary; Henry Silvestri, Treasurer. Office of Secty., 208 W. 8th St., Los Angeles.

SOUTHWEST WASHINGTON CHAPTER:
Robert Billsborough Price, President; Robert T. Olson, 1st Vice-President; Donald F. Burr, 2nd Vice-President; Percy G. Ball, Secretary; Alan C. Liddle, Treasurer; Charles T. Pearson and George Leonard Elkvall, Trustees. Office of Secy., 2715 Center St., Tacoma 2, Washington.

UTAH CHAPTER:
W. J. Monroe, Jr., President, 433 Atlas Bldg., Salt Lake City; M. E. Harris, Jr., Secretary, 703 Newhouse Bldg., Salt Lake City.

WASHINGTON STATE CHAPTER:
Harrison J. Overturf, President; Lawrence G. Waldron, 1st Vice-President; Thomas F. Hargis, Jr., 2nd Vice-President; Talbot Wegg, Secretary; David R. Anderson, Treasurer. Office of Secy., Miss Gwen Myer, Executive Secty., 409 Central Bldg., Seattle 4.

SPOKANE CHAPTER:
Wm. C. James, President; Carl H. Johnson, Vice-President; Keith T. Boyington, Secretary; Ralph J. Bishop, Treasurer; Lawrence G. Evanoff, Carroll Martell, Kenneth W. Brooks, Directors. Office of the Secy., 615 Realty Bldg., Spokane.

HAWAII CHAPTER:
Howard L. Cook, President; Douglas W. Freeth, Vice-Preaident; Francis S. Haines, Secretary; Clifford F. Young, Treasurer. Directors, Richard N. Dennis, Frank Slavsky, William D. Merrill. Office of Secretary, 1410 Kapiolani Blvd., Honolulu 14.

CALIFORNIA COUNCIL, THE A.I.A.:
L. F. Richards, Santa Clara, President; Lee B. Kline, Los Angeles, Vice-President; Edward H. Fickett, Los Angeles, Secretary; Allen Y. Lew, Fresno, Treasurer. Miss Mary E. White, Office Secretary, 703 Market Street, San Francisco 3.

CALIFORNIA STATE BD. ARCHITECTURAL EXAMINERS:
Malcolm D. Reynolds, President (Oakland); Kenneth Wing, Secretary (Long Beach); Wendell R. Spackman (San Francisco); Paul Davis (Santa Ana), and Frank Cronin, Executive Secy., 1020 N St., Sacramento 14.

ALLIED ARCHITECTURAL ORGANIZATIONS

SAN FRANCISCO ARCHITECTURAL CLUB:
Orville Hickenlooper, President; Morris Barnett, Vice-President; John Beckman, Secretary; Carvel Johnson, Treasurer. Directors: Frank Barsotti, Frank Capone, Glenn Crellin, Mel Rojko. Office of Secty., 507 Howard St., San Francisco 5.

PRODUCERS' COUNCIL—SOUTHERN CALIFORNIA CHAPTER:
Clay T. Snider, President, Minneapolis-Honeywell Regulator Co., L.A.; E. J. Lawson, Vice-President, Aluminum Company of America, L.A.; E. Phil Filsinger, Secretary, Gladding, McBean & Co., L.A.; William G. Aspy, Treasurer, H. H Robertson Co., L.A.; Henry E. North, Jr., National Director, Arcadia Metal Products, L.A.; Office of the Secy., 2901 Los Feliz Blvd.

PRODUCERS' COUNCIL—NORTHERN CALIFORNIA CHAPTER:
R. W. Harrington, President, Clay Brick & Tile Ass'n.; P. C. Christensen, Vice-President, Truscon Steel Div., Republic Steel Corpn.; Philip D. Mittell, Secretary, Otis Elevator Co.; William E. Black, III, Treas., Libby, Owens, Ford Glass Co.

PRODUCERS' COUNCIL—SAN DIEGO CHAPTER:
Eugene E. Bean, President, Fenestra Inc., James I. Hayes, Vice-President, Westinghouse Electric Co.; E. R. Shelby, Secretary, The Celotex Corp. (El Cajon); Joseph C. Langley, Treasurer, Republic Steel Corp., Truscon Steel Div. (Lemon Grove). Office of Secy., 1832 Wedgemore Rd., El Cajon.

CONSTRUCTION SPECIFICATIONS INSTITUTE—LOS ANGELES:
George Lamb, President; Herman Boisclair, Vice-President; Jack Whiteside, Secretary; Frank Rasche, Treasurer. DIRECTORS: Walter Hagedohm, Raymond Whalley, Martin A. Hegsted, Chas. F Wetherbee, Arthur T. Raitt and E. Phil Filsinger. Advisory Member: R. R. Coghlan, Jr. Office of Secy., Box 26114, Edendale Sta., Los Angeles 22.

CONSTRUCTION SPECIFICATIONS INSTITUTE
San Francisco Area Chapter:
Leonard M. Tivol, President; Emery Theo. Hirschman, Vice-President; Roual D Shelly, Treas.; William LaGette, Secty. Directors: Frank L. Barsotti, Herman R. Jobst, Walter M Krohn, Charles S. Pope, Erland Siran. Office of Secty., Kaiser Aluminum & Sales Co., 360 22nd St., Oakland 12.

WITH THE ENGINEERS

Structural Engineers Association of California
Joseph Sheffet, President; J. Albert Paquette, Vice-President; William A. Jensen, Secty.-Treas. Directors: R. W. Binder, C. M. Herd, H. J. Degenkolb, H. F. Finch, J. M. Sardis, D. M. Wilson and H. S. Kellam. Office of Secty., 64 Pine Street, San Francisco.

Structural Engineers Association of Northern California
Charles De Maria, President; Leslie W. Graham, Vice-President; Samuel H. Clark, Secty; H. Robert Hamill, Asst. Secty.; William K. Claud, Treas. Directors: Chas. De Maria, Leslie W. Graham, Marvin A. Larson, Eric O. Moorehead, J. Albert Paquette, Donald M. Teixeira, Richard J. Woodward. Office of Secty., 417 Market St., San Francisco 5.

Structural Engineers Society of the East Bay
M. P. Superak, President; D. R. Judd, Vice-President; MacGregor Graham, Sec'y-Treas. Office of Sec'y, 1952 Wright Ave., Richmond.

Structural Engineers Association of Central California
A. L. Brinckman, President; Wendell F. Pond, Vice-President; Gordon M. Hart, Sec.-Treas.; Jack S. Barrish, Norman W. Beattie, Albert T. Brinckman, James J. Doody and Wendell F. Pond, Directors.

Structural Engineers Association of Southern California
Harold Omsted, President; Jack Sparling, 1st Vice-President; Roy Johnston, 2nd Vice-President; Marvin J. Kudroff, Secretary. C. M. Biddison, Treasurer. Directors: Carl Nelson, Irvan Mendenhall, William Rapp, Charles Peterson, Robert Wilder and Norman Green. Office of Secty., 2808 Temple Street, Los Angeles 26.

SOCIETY OF CIVIL ENGINEERS, SAN FRANCISCO SECTION

Dr. Gerald W. Johnson, head of operation "Plowshare" at the University of California Radiation Laboratory in Livermore, was the principal speaker at the February meeting held in the Engineers Club, San Francisco.

Dr. Johnson spoke on "Mass Excavations with Nuclear Explosives" and explained the use of nuclear explosives in creating harbors and for other large scale earthmoving operations. His discussion was well illustrated with slides and a 16mm sound motion picture showing the detonation of a nuclear device equal to 10,000 tons of TNT.

FEMINEERS

Twelve new members joining the Femineers during the past year were honored at a luncheon at the Women's Athletic Club, San Francisco, at the regular February meeting.

Included were Mrs. G. R. Clegg of San Carlos, Mrs. J. Barry Cooke of San Rafael, Mrs. Harmer E. Davis of Berkeley, Mrs. Bentley B. Dunwoody of Belmont, Mrs. W. A. Giddings of Danville, Mrs. H. Robert Hamill of Walnut Creek, Mrs. Frank M. S. Johnson of Los Gatos, Mrs. Leon Nadolski of Oakland, Mrs. Ben E. Nutter of Oakland, Mrs. Harry A. Peshow of Oakland, Mrs. Charles F. Uhrhammer of Los Altos and Mrs. John H. Wilson of San Mateo.

Bill Wagner, art consultant of television station KRON, was the principal speaker for the meeting, taking as his subject "The Art of Doodling."

Announcement was made that a "hillbilly party" will be held by the organization on March 14 at the Carroll Ranch Rheem Center.

CALIFORNIA STATE BOARD OF REGISTRATION NAMES S. B. BARNES PRESIDENT

The California State Board of Registration for Civil and Professional Engineers, at a recent meeting in Sacramento, elected S. B. Barnes as President of the Board for 1959. G. M. Simonson was chosen vice-president.

Barnes, a prominent civil and structural engineer, in private practice in Los Angeles, opened his offices in 1933. Prior to that time he had served the City of Los Angeles and the State of California as an engineer and has been associated with the firm of Oliver S. Bowen.

STRUCTURAL ENGINEERS ASSN. OF SOUTHERN CALIFORNIA

"Structural Features of the Crown Zellerbach Corporation Headquarters Office Building in San Francisco" was the subject of a discussion by Charles De Maria, structural engineer with H. J. Brunnier, San Francisco, and President of the SEAONC.

The speaker showed design features of the building and recounted the unique problems his firm faced during the design of the multi-storied structure. The nineteen story building is now under construction in downtown San Francisco. The site covers an entire block bounded by Bush, Battery, Market and Sansome Streets. The architects were an association of Hertzka and Knowles, and Skidmore, Owings and Merrill. The general contractor is Haas and Haynie.

The structure evolved from extensive preliminary planning consists of an office tower and inter-connected service tower. The service tower contains elevators, stairwells, rest rooms and duct space and is offset from one side of the building. The design has no interior columns in the office tower, thereby giving a clear area that can be cut into office sizes to suit the tenant. All facilities such as electrical and telephone are laid out on a 5'6" module to provide partition mobility. The total area of the building is 452,430 square feet, including a basement and sub-basement. The net office area is 220,160 square feet or approximately 49% of the total. The remaining area will be used for parking, storage and services. The space within the site not occupied by the building will be made into a garden.

The structural frame is fireproofed steel except for small areas of the basement and garden levels which are concrete. All office floors are cellular steel deck with a concrete cover. To provide support for heavy electronic office machines, the floors were designed for 100 pound per sq. ft. live load.

Exterior walls extending above the second floor are

American Society of Civil Engineers
Los Angeles Section
George E. Brandow, President; Ernest Maag, Vice-President; L. LeRoy Crandall, Vice-President; J. E. McKee, Secretary; Alfred E. Waters, Treasurer. Office of Secy., California Institute of Technology, Pasadena, Calif.
Secy.-Treas.: 4865 Park Ave., Riverside. Ventura-Santa Barbara Counties Branch, Robert L. Ryan, Pres.; Richard E. Burnett, Vice-President; George Conahey, Secy.-Treas., 649 Doris St., Oxnard.
American Society of Civil Engineers
San Francisco Section
Wm. W. Moore, President; Harmer E. Davis, 1st Vice-President; John A. Blume, 2nd Vice-President; B. A. Vallerga, Secretary; Ben C. Gerwick, Jr., Treasurer. Office of the Sec. (Mrs. Ola H. Dewell, Mgr.) Room 302, Atlas Bldg., 604 Mission St., San Francisco 5.
San Jose Branch
Stanley J. Kocal, President; Charles L. Coburn, Vice-President; Myron M. Jacobs, Secty. and Treas.
Structural Engineers Association of Oregon
Charles H. Woodworth, President; Arthur M. James, Vice-President; Cyril Burgstahler, Secy-Treas. Directors, James G. Pierson, George A. Guins, Robert M. Bonney, Albert P. Jensen, Jr. Office of Secy 717 Bd. of Trade Bldg, 310 S.W. 4th Ave. Portland 4, Oregon.
Society of American Military Engineers
Puget Sound Engineering Council (Washington)
R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer; Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.
American Society Testing Materials
Northern California District
R. W. Harrington, Chairman; G. L. Grieve, Vice-Chairman; R. C. Vollmer, Secretary. Office of Secty., 988 Cresion Road, Berkeley 8, Calif.
American Society for Metals
Los Angeles Chapter: John E. Wilson, Chairman; Stuart K. Oliver, Vice-Chairman; H. A. Curwin, Secretary; W. V. Wood, Treasurer; K. L. Clark, Asst. Secretary. Office Secy., Earle M. Jorgensen Co.
Society of American Military Engineers—San Francisco Post
Col. Edwin M. Eads, USAF, President; C. R. Graff, 1st Vice-President; Col. Seymore A. Potter, Jr., 2nd Vice-President; Roger L. Cairns, Secretary; Donald C. Bentley, Treasurer. Directors—Col. John S. Hartnett, USA; Donald McCall; Capt. A. P. Gardiner, USN; C. Grant Austin, and Rex A. Daddisman. Office Secy. USAF, U.S. Appraisers Bldg, 630 Sansome St., San Francisco.

glass with tempered enameled glass at the spandrels and heat absorbing glass elsewhere. Since the building is completely air conditioned, all windows are fixed. Special permission had to be obtained from the San Francisco Board of Examiners in order to use the stationary windows.

DeMaria noted that the structural elements of Type I construction such as the Crown Zellerbach Building have practically an unlimited life. No expense was spared to install mechanical and electrical equipment that was the most modern available and designed for many future requirements. He gave as an example provisions made for water and sewer use. The rest rooms are located in the service core for easy maintenance and modification. In addition, a complete layout of sewer and water mains has been installed so that fixtures can be placed anywhere in the building by tapping into readily accessible lines.

The foundation is a continuous mat of reinforced concrete covering the entire site of 52,000 square feet. The mat has a maximum thickness of 8 feet and rests 40 feet below street level. Maximum foundation pressure is 6000 pounds per square foot. The foundation required 11,000 cubic yards of concrete and 1,200 tons of reinforcing steel. A water table level twenty feet above the sub-basement level was an added design problem relative to retaining walls and foundations.

Ramps from the street to the basement parking areas caused additional problems. Column location and beam depths became so critical in the layout that Mr. Brunnier's office spent a great deal of time computing ramp curves, grades and superelevation.

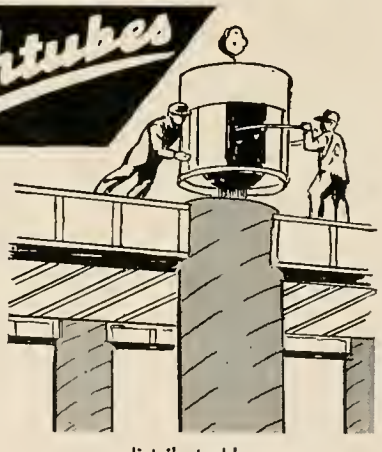
DeMaria illustrated his talk with slides showing the building during its present stage of construction. The office tower is composed of two-legged rigid frames spaced 22 feet on centers. 3½ foot deep floor girders span 64 feet between columns. All field constructions are either high strength bolts or turned bolts except for certain welded column splices. The office tower was designed to be self-sustaining as a moment resisting frame for seismic and wind forces.

The seismic loading is based on the San Francisco Building Code with a base shear of 3½% x G. One premise in the design of the office tower frame was that comfort of occupants should be maintained during high winds. This led to the establishment of story drift limit of 3/16" for a 20 pound per sq. ft. wind force and ¼" for the seismic base shear of 3½%.

POUR CLEAN, ROUND CONCRETE COLUMNS

with

Richtubes



Save time, labor, materials!

LIGHTWEIGHT
EASY HANDLING
MINIMUM BRACING
EASILY SAWED

Sizes: From 2" to 48" I.D. Up to 50' long. Stocked in standard dimensions.

distributed by

PCA

PACIFIC CEMENT & AGGREGATES, INC.

CONTACT THE NEAREST PCA SALES OFFICE

San Francisco *Stockton*
Sacramento *San Jose*
Oakland *Fresno*

all-around access:

• • • Wherever workmen must go, there is a Bilco door to provide easy access. Choose from a wide range of standard units . . . or select special doors shaped and sized to your precise needs.

Ease of installation, permanent weather-sealing, and rugged construction are all part of the Bilco quality tradition. Exclusive design features include built-in spring operators for effortless lifting of even heavy plate doors. Bilco all-metal doors give you freedom of design, too—they fit and blend with any structure.

Specify Bilco doors...design with Bilco doors in mind...with confidence in Bilco lifetime quality.

SCHULTZ-DEWEY & CO.
190 MacArthur Boulevard, Oakland 10
DANIEL DUNNER
6200 Alonzo Avenue, Reseda
HEALEY & POPOVICH
1703 Fulton, Fresno

Bilco®

HORIZONTAL SPRING-OPERATED DOORS

The Bilco Co., New Haven Conn., Dept. A33
Please send me your new catalog on special service doors.
NAME
FIRM
STREET
CITY ZONE STATE

DINWIDDIE CONSTRUCTION CO

(From Page 24)

remain and be strengthened by a continuous, covere walkway which will surround the central building link all buildings and minor courts.

In the fall of 1957, the University authorized th building of a duplicate unit two blocks south of th already approved unit, the dividing block to be d veloped into an open park.

ESTIMATED CONSTRUCTION COST:
$3,300,000 (each unit)

ESTIMATED UNIT COST:
$18.00 per square foot (excluding site developme work and interior furnishings)

GROSS BUILDING AREA:
195,000 square feet (each unit)

Active Since 1912

The Dinwiddie Construction Company was esta lished in 1912 by the late William Stewart Dinwid nationally recognized for his achievements in the buil ing industry. From Portland, Oregon, where the ganization was prominently identified as the build of such notable structures as the Oregon Journal buil ing and the Meier & Frank Department Store, t company moved to San Francisco.

Following the death of William (Bill) Dinwidd the company management was taken over by Curtis Smith who continues to be the guiding hand, assist by a group of experienced executives, including Cur Smith, Jr., and James Dinwiddie, vice presidents. S perintendents in the field average fifteen to 25 ye with the company and assistants are constantly bei schooled to advance when opportunities arise.

The company possesses sound financial streng wide buying power and complete up to the minu equipment. It enjoys the confidence of leading arc tects and engineers who appreciate its capability save their clients' money on large or small jobs witho sacrifice of speed or quality.

MOULIN STUDIOS
181 Second St., San Francisco
Phone: YUkon 6-4224

Photographers for the

DINWIDDIE CONSTRUCTION CO.

for more than a quarter Century
. . . and all of San Francisco
for over 75 years.

CALIFORNIA CIVIL ENGINEERS MEET IN LOS ANGELES

With a discussion of the most comprehensive study of surveying and mapping ever made in the United States, the California Council of Civil Engineers and Land Surveyors completed their seventh annual convention in Los Angeles recently.

E. Lee Scott of Los Angeles was elected president of the statewide association, succeeding George C. Bestor of Carmel. Walter J. Hanna, Jr., of Gilroy was named 1st vice president; Charles W. Christensen, San Diego, 2nd Vice president; and Ray Murphy, Redwood City was chosen secretary-treasurer. William A. White of Sacramento was named executive director.

Highlights of the three-day technical meetings included panel discussions on electric computing and modern civil engineering and surveying techniques; professional fees; highway programs; geology in subdivision development; systems engineering and other advanced topics.

JOE E. FETTERS NAMED PRES. CONSTRUCTION INSPECTORS ASSOC.

Joe E. Fetters, Alamitos School District Building Inspector, has been elected President of the Construction Inspectors Association of Southern California, an organization comprising more than 200 building inspectors working together for uniformity in inspection services, education of the membership in modern construction methods and materials, and the improvement of working relationships between architects, contractors and state agencies.

ARCHITECTS NAMED TO SERVE ON JURY AWARD

The American Institute of Architects has announced the names of five distinguished architects to serve as the Jury for the 1959 R. S. Reynolds Memorial Award for the most significant work of architecture, in the creation of which aluminum has been an important contributing factor.

Named to the Reynolds Award Jury were: Robert E. Alexander, Los Angeles, California; John N. Richards, Toledo, Ohio; Eero Saarinen, Bloomfield Hills, Michigan; William W. Caudill, Corning, New York; and because the award is international in character, Carlos Contreras of Mexico City, Mexico was selected.

The Jury will meet in Washington, D. C., during May to consider nominations, and the Award will be presented at the annual convention of The American Institute of Architects in the summer.

The Reynolds Memorial Award is a $25,000 honorary payment plus an emblem, and is conferred annually.

GENE PIGNON NAMED PRES. OF MASON CONTRACTORS' EXCH.

Gene Pignon has been elected President of the Mason Contractors' Exchange of Southern California, succeeding Leonard Thompson, at the 44th Annual dinner dance of the organization in Los Angeles.

Other officers include Robert Thomas, vice-president; Max Adams, secretary and Frank Smith, treasurer. Members of the Board include Max Mann, Frank Fisher, Dale Henderson, Ryan O'Brien and Leonard Thompson.

The Mason Contractors' Exchange is the oldest sub-contractor group organized in Southern California.

CONSULTING ENGINEERING FIRM EXPANDS OFFICES

The principals of the consulting engineering firm of Woodward, Clyde, Sherard & Associates of Oakland, have announced the opening of two new offices on the East Coast. One office will be at 680 5th Avenue, New York City, and the other in Montclair, New Jersey, at 98 Greenwood Avenue.

A Southern California division was recently opened at 3467 Kurtz Street in San Diego, and additional offices are located in Denver, Omaha and Kansas City.

LANDSCAPE ARCHITECTS HEAR PUBLICIST AT LOS ANGELES MEETING

Erwin Newton, staff member of Robert M. Garrick Public Relations Counsel, recently spoke to members of the Los Angeles Chapter of the American Institute of Landscape Architects.

SPECIFY HAWS FROM A COMPLETE LINEUP OF...

ELECTRIC WATER COOLERS!

You can specify water coolers for any specific requirement from the complete lineup of HAWS ELECTRIC WATER COOLERS! Pressure bubbler types, bottle-types, freezing compartment models, hot and colds, restaurant and cafeteria models of all sizes, remotes, wall inserts... they're ALL in the HAWS lineup with custom styling and advanced designs that guarantee client satisfaction.

Specify HAWS! Get *Complete* Water Cooler specification data from one *dependable source* . . . write today, for the new 1958 HAWS Catalog!

HAWS DRINKING FAUCET CO.

1441 FOURTH STREET (since 1909) BERKELEY 10, CALIFORNIA

"MUD" (PLASTER)

(From page 25)

burlap with gypsum, let it harden, and nailed it to the joists of a wall. Crude, to be sure, but at least it went up fast and covered as much area as eight pieces of wood lath.

James Morrison of New York City developed an improved type of lath in 1884 when he placed a mixture of gypsum and cocoanut fibers in a shallow mold and let it harden. Later on plaster was precast in sheets, complete with paper covering, and thus the inspiration for gypsum lath as we know it today.

The above is a short history of gypsum up to modern day plaster. Very few people are aware of this interesting background.

Another useful facet of this material is its resistance to heat, which of course is one of its many desirable qualifications in construction, namely, fire protection.

If an inch thick, twelve inch square of gypsum plaster is placed over a bunsen burner the flame will darken the bottom of it and makes it glow but, other than that, it seems to have little effect. (This isn't surprising because long ago, after a conflagration almost burned Paris to the ground, it was discovered that fire had little effect on wooden beams decorated with gypsum plaster). Such a flame test will make very little headway in burning through the piece of gypsum, and it will not until at least half an hour has elapsed. The burner will generate a temperature of about 1700°F, which would be the temperature of the gypsum exposed to the burner, yet on the other side a thermometer will only register 220°F, well below the combustion point of wood. Being fire resistant, therefore, a gypsum plaster wall not only wards off flames but protects the wood or steel supports behind it.

This unique life-saving feature results from the fact that as soon as fire attacks the gypsum surface it gives off steam just as it did when first calcined, combatting the blaze with millions of tiny built-in "sprinklers."

It would be assumed that a material with so much on the ball would have little or no trouble obtaining its rightful niche as a leading building material. It has, however, due mostly to the type of products that were marketed during the first quarter of the 20th Century. Now, by constant improvements and concentrated research of forward looking companies, lath and plaster has been brought to the fore.

Thus did the gypsum in the short span of 32 years show more progress than it had in the preceding 50 centuries, surpassing even such giants as steel, concrete and brick in the construction field and earning yet another title, the "Geological Genie."

Chances are you will never have to design or build a pyramid. However, a material used over 3000 years ago in Egyptian temples and pyramids is one to remember—and use—today.

While plaster is as old as the pyramids, the lathing and plastering industry is as modern as tomorrow, due to the ever improving materials and techniques of application. Curved and flat surfaces, vaulted ceilings, multitudes of colors as permanent as the material itself, safety from fire, low maintenance costs, high resale value, ease of redecoration, sound proofing, and heat insulation, are all obtainable with this versatile material.

FORDERER CORNICE WORKS

Manufacturers of

Hollow Metal Products • Interior Metal Trim
Elevator Fronts and Cabs
Metal Plaster Accessories • Sanitary Metal Base
Flat and Roll Metal Screens
Metal Cabinets • Commercial Refrigerators

269 POTRERO AVE.

SAN FRANCISCO, CALIF. **HEMLOCK 1-4100**

A MARIN COUNTY HOME

(From Page 9)

house. The upper deck provides ample outdoor space from the kitchen, living, and dining areas.

Besides 1900 square feet of finished area, including three bedrooms and two baths, the lower portion of the house accommodates two extra unfinished rooms, accounting for an additional 300 square feet and full basement.

Wide areas of glass in living room and kitchen provide the view and are accessible to the large upper deck area—and from either deck, Mr. and Mrs. Macgowan can contemplate a vast natural garden reaching clear to the Bay and this landscape—if you will—without benefit of hoe or lawnmower.

JOHN K. DUKEHART, President, Oregon Chapter, A.I.A., is reportedly recovering from a slight heart attack which hospitalized him early in January.

1959 A.I.A. NATIONAL CONVENTION has been announced for June 22-26, with New Orleans being the convention city. An effort is being made to make San Francisco the 1960 convention city.

ARCHITECT Joel Bowman, Mountain View, has been commissioned by the City of Mt. View to design a new Civic Center for the City of Mountain View.

PICTURE CREDITS: Carl H. Reik, Cover, Page 11; Moulin Studios, Page 10, 12, 13, 14, 15, 16, 18, 19, 20 bottom, 21, 22, 24; Bethlehem Pacific Steel, Page 8, 9; Gordon Sommers Photography, Page 5 bottom; Kurt Bank, Page 20 top center; Photo Craft Shop, Page 23.

BOOK REVIEWS
PAMPHLETS AND CATALOGUES

THE RESULTS APPROACH TO ORGANIZATION. By Edward C. Schleh. Society for Advancement of Management, 74 5th Ave., New York 11, N. Y. Price $1.50.

The author shows how a "results" structure can be built into each job at each level. The "results" approach to organization (a) sets measurable yardstick of accountability for line and staff at each level in the organization; (b) creates balanced effort throughout the organization so that each individual contributes maximally to the objectives of the total enterprise; (c) releases individual creativity and initiative by making each job in the organization a small replica of the job above it.

THE BUILDING OF TWA. By John H. Kyle. Louisiana State University Press, Baton Rouge 3, La. Illustrated, 162 pages. Price $7.50.

Launched in the depths of the 1930's Depression, TVA has carried on a vast program of planning and development which has no parallel in this country. The purpose of this book is to present the work of TVA in words and, above all, in pictures. The dams, bridges, steam plants, and other structures reproduced here represent some of the noblest architecture and engineering produced in the United States. The book describes the backbone of the TVA program in simple understandable terms.

THE STRUCTURE OF STEEL. By Edwin Gregory, Ph.D., M.Sc., M.I.E.I., F.I.M., F.R.I.C., and Eric N. Simons. Philosophical Library, Inc., 15 E. 40th St., New York 16, N. Y. Illustrated, 176 pages. Price $10.00

This is a simple, and as far as possible, non-technical explanation of the metallurgical structure of the various steels and alloys, intended especially for students, engineers, and buyers of steel, rather than metallurgists.

The book shows clearly how the properties of any given steel will depend on both its composition and its treatment during manufacture, and attention is therefore given to both these aspects. The basic chemistry of iron and steel is outlined, with reference to the effects of cooling from the liquid state, and atomic crystalline structure. Impurities found in steel and their effects are explained, as well as the effects of the various processes of mechanical working. The wide range of modern alloy steels is reviewed, and particular attention to stainless steels and heat resistant steels.

SUMMER AIR CONDITIONING. By Seichi Konzo, J. Raymond Carroll and Harlan D. Bareither. Popular Mechanics Press, 200 Ontario St., Chicago 11, Ill. Diagrams, 554 pages. Price $7.50

This book was written for the specific purpose to provide a text and reference for those seriously interested in learning the fundamentals involved in the field of heating and cooling, as applied to residential work. The material was prepared especially for the purposes of the United States Armed Forces Institute, and contains therefore, problems and exercises that will enable a student to determine his understanding of the material presented. No problem included calls for more than a common knowledge of arithmetic. Well illustrated with graphs and curves.

NEW CATALOGUES AVAILABLE

Architects, Engineers, Contractors, Planning Commission members—the catalogues, folders, new building products material, etc., described below may be obtained by directing your request to the name and address given in each item.

Wrought iron pipe. New booklet (AIA File 29-B-2) features soil, waste, vents, downspouts in wrought iron for building drainage systems; highly illustrated, installations, costs, specifications covering all types of construction. Free copy write DEPT-A&E, A. M. Byers Company, 1610 Clark Bldg., Pittsburgh, Pa.

Concreting of airport pavements and structures. New 20-page brochure discusses problems encountered in concreting of airport pavements and structures; covers 9 important airport projects in U.S.A., Canada, and the Dominican Republic; text and photographs; includes problem of pavement cracking under hot weather, etc. Free copy write DEPT-A&E, Masters Builders Co., 7016 Euclid Ave., Cleveland 3, Ohio.

Western Distributors Herring-Hall Marvin Safe Company Hamilton, O.

DESIGNERS • MANUFACTURERS
SAFES • VAULTS • MONEY CHESTS
FEDERAL BURGLAR ALARMS
THE HERMANN SAFE CO.
1699 Market St., San Francisco 3, Calif. Tel.: UNderhill 1-6644

HAAS and HAYNIE
Formerly Haas Construction Company
Since 1898
275 PINE ST.
SAN FRANCISCO, CALIF.
Phone DOuglas 2-0678

"AMERICAN-MARSH"
CONDENSATION UNIT
Durable — Economical
Stocked Locally
Please contact us for information on All Pumping Problems.
— CALL —
SIMONDS MACHINERY CO.
DOUGLAS 2-6794
816 Folsom St. San Francisco
SIMONDS FOR PUMPS

JUDSON PACIFIC-MURPHY CORP.
Steel Fabricators and Erectors
REINFORCING STEEL
STRUCTURAL STEEL
BRIDGE CRANES
4300 EASTSHORE HWY.
EMERYVILLE, CALIF.
Phone: OL 3-1717

PACIFIC MANUFACTURING CO.

High Class Interior Finish Quality Millwork

16 Beale St., San Francisco
GArfield 1-7755

2115 "J" Street — Sacramento
GIlbert 2-7633

3345 Leonis Blvd. — Los Angeles
LUdlow 5-1211

2610 The Alameda — Santa Clara
AXminster 6-2040

VERMONT MARBLE COMPANY

DOMESTIC AND IMPORTED MARBLES
GRANITE VENEER

VER-MYEN Serpentine for Laboratory Equipment

6000 THIRD STREET • SAN FRANCISCO 24, CALIF.
Phone: VAlencie 6-5024

3522 COUNCIL STREET • LOS ANGELES 4
Phone: DUnkirk 2-6339

The Most Complete Line of
STEELS and STEEL BUILDING MATERIALS
Made by a Single Producer

REPUBLIC STEEL

See Sweet's Catalog File or write us for full information.

REPUBLIC STEEL CORPORATION
GENERAL OFFICES: CLEVELAND, OHIO

DENVER, COLORADO . . . . CONTINENTAL OIL BUILDING
LOS ANGELES, CALIF. . . . GENERAL PETROLEUM BUILDING
SAN FRANCISCO, CALIFORNIA . . . . RIALTO BUILDING
SEATTLE, WASH. . . . . WHITE-HENRY-STUART BUILDING

Challenger locks. New full color brochure (AIA File No. 27-B) is complete with specifications, recommended uses, cutaway drawings of locks, plus full color illustrations of both locks and escutcheons; designed to be useful and informative to architects, builders and dealers; features new Challenger 900 series 1-piece cold forged knobs, brass retractors, aircraft aluminum housing and extra large spindle bearings. Free copy write DEPT-A&E, Challenger Lock Co., 4865 Exposition Blvd., Los Angeles, California.

Hazard-free houses for all. New bulletin suggests houses that are thoughtfully designed can provide safe and comfortable living for all occupants, whether young or old; high rate of home accidents makes it imperative hazards be eliminated; economic factor makes it wise and cheaper to build safety precautions into new construction than to make alterations later; and many other valuable suggestions in home design for architects, engineers, contractors. Free copy write DEPT-A&E, Small Homes Council, University of Illinois, Urbana, Ill.

"Color vs. Illumination." New manual on color in relation to illumination levels is discussed and pictured in this new booklet for architects, engineers and contractors; 16-pages plastic bound, file size, printed in full color and covers many phases of color selection for interior decoration; divided into two general classifications: Color schemes suitable for low illumination levels, and colors recommended for normal and high illumination. Free copy write DEPT-A&E, American-Marietta Paint Division, 101 E. Ontario St., Chicago 11, Ill.

"Dial thermometers." New 12-page catalog #205 describes completely redesigned line of indicating dial thermometers for temperature measurements in the range of 40 d/f to 1000 d/f; gives specifications for both direct and remote reading types; information on the four types of filling mediums as well as thermometer case sizes, materials, and styles. Free copy write DEPT-A&E, U. S. Gauge, Division of American Machine & Metals, Inc., Sellersville, Pa.

Architectural aluminum alloys. New 12-page booklet (AIA File No. 15-J) contains design information on architectural applications of aluminum and a detailed listing of the properties of architectural aluminum alloys and their uses in both standard and basic mill products as building components and materials; describes varieties of special finishes and appearance. Free copy write DEPT-A&E, Olin Aluminum; Metals Division, 400 Park Ave., New York 22.

"How to select a time switch." New catalogue devoted to the explanation of switching and timing; helps select right switch action, typical wiring diagrams and explanations of what switches are offered; detailed drawings and explanations; and simple formula for the selection of the proper timing; of special interest to architects, engineers, contractors, and industrial users of time control equipment. Free copy write DEPT-A&E, Tork Time Controls, Inc., Mount Vernon, New York.

Owens-Illinois curtain wall. New brochure describes revolutionary new concept in curtain wall construction affording architects, engineers, contractors, extreme flexibility and freedom of design; fast, easy installation in all types of weather, complete moisture protection. For complete data write DEPT-A&E, Kimbal Glass Company, Box 1035, Toledo, Ohio.

ARCHITECTS & ENGINEERS...

THE SUPPLIERS QUANTITY SURVEY SERVICE—a new LeRoy service—furnishes quantity surveys to suppliers of construction products that enable them to submit bids on your projects WITHOUT the need of your plans.

This valuable service reduces estimating expenses of suppliers, increases their bidding facilities, and reduces the number—and cost—of your plans needed by suppliers.

Help promote these benefits by letting us have an early set of plans for each of your projects.

We need your plans only a couple of days, then promptly returned.

LeROY CONSTRUCTION SERVICES
768 BRANNAN • SAN FRANCISCO, 3 • UNderhill 1-2483

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY LeROY CONSTRUCTION SERVICES. 4% SALES TAX ON ALL MATERIALS BUT NOT LABOR. ITEMS IN ITALIC INCLUDE LABOR AND SALES TAX.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor and Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK & MASONRY

COMMON BRICKWORK, Reinforced:		
8" walls	SF	*2.95*
12" walls	SF	*4.15*
SELECT COMMON, Reinforced:		
8" walls	SF	*3.05*
12" walls	SF	*4.30*
CONCRETE BLOCK, Reinforced:		
6" walls	SF	*1.40*
8" walls	SF	*1.55*
12" walls	SF	*1.90*
BRICK VENEER:		
4" Select Common	SF	*1.65*
4" Roman	SF	*2.50*
4" Norman	SF	*2.40*
4" Aggrelite	SF	*2.40*

BRICKWORK & MASONRY

All Prices—F.O.B. Plant.

COMMON BRICK		
Common 2½ x 3¾ x 8¼	M	45.00
Select 2½ x 3¾ x 8¼	M	52.00
Clinker 2½ x 3¾ x 8¼	M	48.00
Jumbo 3½ x 3 x 11½	M	90.00
FACE BRICK		
Standard	M	59.80 - 83.20
Jumbo	M	114.40 - 130.00
Roman	M	88.40 - 109.20
Norman	M	101.40 - 124.80
Brik Blox (6")	M	202.80
(8")	M	239.20
Braile Veneer	M	26.00
BUILDING TILE		
8 x 5½ x 12 inches	M	165.78
6 x 5½ x 12 inches	M	128.96
HOLLOW TILE		
12 x 12 x 3 inches	M	163.12
12 x 12 x 4 inches	M	184.18
12 x 12 x 6 inches	M	244.71
MANTEL FIRE BRICK		
2½ x 9½ x 4½ inches	M	140.40
GLAZED STRUCTURAL UNITS		
2 x 6 x 12 Furring	SF	.90
4 x 6 x 12 Furring	SF	1.20
6 x 6 x 12 Furring	SF	1.50
4 x 6 x 12 Partition	SF	1.60
Add for color	SF	.20
CONCRETE BLOCKS		
4 x 8 x 16 inches	EA	.22
6 x 8 x 16 inches	EA	.265
8 x 8 x 16 inches	EA	.30
12 x 8 x 16 inches	EA	.435
Colored Add	EA	.02
AGGREGATE—Haydite or Basalite		
All sizes in bulk	CY	6.24

BUILDING PAPERS & FELTS

1 ply per 1000 ft. roll	3.95
2 ply per 1000 ft. roll	6.03
3 ply per 1000 ft. roll	8.22
Sisalkraft, reinf. 500 ft. roll	7.54
SHEATHING PAPERS:	
Asphalt sheathing, 15-lb. roll	2.40
30-lb. roll	3.37
Dampcourse, 216-ft. roll	3.05
FELT PAPERS:	
Deadening felt, ¾ lb., 50 ft. roll	3.94
Deadening felt, 1 lb., 50 ft. roll	4.60
Asphalt roofing, 15-lb.	2.50
30-lb.	3.50
ROOFING PAPERS:	
Standard Grade, Smooth Surface	
108 ft. roll, Light, 45 lb.	2.26
Medium 55 lb.	2.64
Heavy 65 lb.	3.10
Mineral Surfaced	3.60

CHIMNEYS, PATENT

F.O.B. Warehouse

6"	LF	1.45
8"	LF	2.05
10"	LF	2.85
12"	LF	3.45

Rates for 10 - 50 Lin. Ft.

CONCRETE AGGREGATES

	Bunker Per Ton	Del'd Per Ton
Gravel, All Sizes	3.25	4.00
Top Sand	3.45	4.20
Concrete Mix	3.35	4.20
Crushed Rock		
¼" to ¾"	3.30	4.20
¾" to 1½"	3.30	4.20
Roofing Gravel	3.46	4.15
SAND		
Lapis (Nos. 1 & 2)	4.30	5.10
Olympia (Nos. 1 & 2)	3.60	4.15
CEMENT		
Common, All brands (Paper sacks)		
Small quantities,	Per Sack	1.35
Large quantities,	Per bbl.	4.25
Trinity White & Mendusa White	Per Sack	4.00
CONCRETE MIX		
6 sacks in 5-yd. loads	Per yard	13.40
CURING COMPOUND, Clear		
5 gal drums	Per Gal.	1.46

CARPENTRY & MILLWORK

Hardware not included

FRAMING:		
Floors	BM	*.20 - .25*
Walls	BM	*.25 - .30*
Ceilings	BM	*.18 - .22*
Roofs	BM	*.22 - .27*
Furring & Blocking	BM	*.30 - .50*
SHEATHING:		
1 x 8 straight	BM	*.20 - .25*
1 x 8 diagonal	BM	*.23 - .28*
5/16" Plyscore	SF	*.16 - .20*
¾" Plywood	SF	*.25 - .30*
SIDING:		
1 x 8 Bevel	BM	*.35 - .40*
1 x 4 V-Rustic	BM	*.40 - .45*
EXTERIOR TRIM:		
Fascia and Molds	BM	*.40 - .50*
Bolted Framing—Add 50%		
ENTRANCE DOORS & FRAMES:		
Singles		*60.00 & Up*
Doubles		*100.00 & Up*
INTERIOR DOORS & FRAMES:		
Singles		*35.00 & Up*
Pocket Sliding		*45.00 & Up*
Closet Sliding (Fr.)		*50.00 & Up*
WINDOWS:		
D/H Sash & Frames	SF	*1.75 & Up*
Casement Sash & Frames	SF	*1.90 & Up*
SHELVING:		
1 x 12 S4S	BM	*.30 - .50*
¾" Plywood	SF	*.40 - .60*
STAIRS:		
Oak steps D.F. Risers		
Under 36" wide	Riser	*12.00*
Under 60" wide	Riser	*17.00*
Newel posts and rail extra		
WOOD CASES & CABINETS:		
D.F. Wall Hung	LF	*13.00 - 18.00*
D.F. Counters	LF	*15.00 - 20.00*

DAMPPROOFING & WATERPROOFING

MEMBRANE:		
1 layer 50 lb. felt	SQ.	9.00
4 layers Dampcourse	SQ.	13.00
Hot coat walls	SQ.	6.00
Tricoisal added to concrete	CY	1.00
Anti-Hydro added to concrete	CY	1.50

ELECTRIC WIRING

Per Outlet:		
Knob & Tube	EA	9.00
Armor	EA	16.00
Conduit	EA	20.00
110 V Circuit	EA	25.00
220 V Circuit	EA	95.00

ELEVATORS & ESCALATORS

Prices vary according to capacity, speed and type. Consult Elevator Companies.

Slow speed apartment house elevator including doors and trim, about $5000.00 per floor.

EXCAVATION

MACHINE WORK in common ground:		
Large Basements	CY	*.75 - 1.00*
Small Pits	CY	*1.25 - 1.75*
Trenches	CY	*1.50 - 2.25*
HAND WORK in common ground:		
Large pits and trenches	CY	*4.50 - 5.50*
Small pits and trimming	CY	*5.00 - 6.50*

Hard Clay & Shale 2 times above rates.
Rock and large boulders 4-6 times above rates.
Shoring, bracing and disposal of water not included.

FLOORS

⅛" Asp. tile, dark colors	SF	*.25 - .30*
⅛" Asp. tile, light colors	SF	*.30 - .35*
⅛" Rubber tile	SF	*.60 - .70*
.080 Vinyl Asbestos Tile	SF	*.40 - .45*
.080 Vinyl Tile	SF	*.85 - .95*
Lino, Standard Gauge	SY	*3.75 - 4.25*
Lino, Battleship	SY	*5.25 - 5.75*
4" Rubber Base, Black	LF	*.35 - .40*
Rubber Stair Nosing	LF	*1.00 - 1.75*

Above rates based on quantities of 1000 - 5000 SF per job.

HARDWOOD FLOORS

Select Oak, filled, sanded, stained and varnished:		
5/16" x 2¼" strip	SF	*.45 - .50*
5/16" Random Plank	SF	*.50 - .55*
25/32" x 2¼" T&G	SF	*.70 - .80*
Maple, 2nd Grade and Better, filled, sanded, stained and varnished:		
25/32" x 2¼" T&G	SF	*.80 - .95*
Wax Finish, add	SF	*.10*

HARDWOOD FLOORING

Oak 5/16" x 2" Strip—		
Clear	M	229.00
Select	M	218.00
#1 Common	M	203.00
Oak 5/16" Random Plank—		
Select & Btr.	M	286.00
#1 Common	M	244.00
Oak 25/32" x 2¼" T&G—		
Select	M	260.00
#1 Common	M	203.00
Maple 25/32" x 2¼" T&G—		
#1 Grade	M	317.00
#2 Grade	M	281.00
#3 Grade	M	208.00
Nails—1" Floor Brads	KEG	17.20

GLASS & GLAZING

S.S.B. Clear	SF	.48
D.S.B. Clear	SF	.78
Crystal	SF	.92
¼" Plate	SF	2.17
⅛" Obscure	SF	.68
⅛" Heat Absorbing	SF	1.12
¼" Tempered Plate	SF	4.38
½" Tempered Plate	SF	7.84
¼" Wire Plate, Clear	SF	3.65
¼" Wire Plate, Rough	SF	1.08

GLASS—CUT TO SIZE

F.O.B. Warehouse

S.S.B. Clear, Av. 6 SF	SF	.34
D.S.B. Clear, Av. 10 SF	SF	.56
Crystal, Av. 35-SF	SF	.65
¼" Polished Plate, Av. 100 SF	SF	1.55
⅛" Obscure, Av. 10 SF	SF	.49
⅛" Ribbed, Av. 10 SF	SF	.49
⅛" Rough, Av. 10 SF	SF	.49
¼" Wire Plate, Clear, Av. 40 SF	SF	2.61
¼" Wire Plate, Rough, Av. 40 SF	SF	.77
⅛" Heat Absorbing, Av. 10 SF	SF	.80
¼" Tempered Plate, Av. 50 SF	SF	3.60
½" Tempered Plate, Av. 50 SF	SF	6.88
Glazing—Approx. 40-50% of Glass		
Glass Blocks—		
6"		.57
8"		.92
12"		2.39

HEATING

FURNACES—Gas Fired—Av. Job:		
FLOOR FURNACE:		
25,000 BTU		*100.00 - 125.00*
35,000 BTU		*107.00 - 135.00*
45,000 BTU		*115.00 - 150.00*
AUTOMATIC CONTROL:		
Add		*25.00 - 35.00*

HEATING—Cont'd

DUAL WALL FURNACE:
- 25,000 BTU ... 110.00 - 125.00
- 35,000 BTU ... 125.00 - 145.00
- 50,000 BTU ... 150.00 - 180.00

AUTOMATIC CONTROL:
- Add ... 25.00 - 35.00

GRAVITY FURNACE:
- 75,000 BTU ... 375.00 - 450.00
- 85,000 BTU ... 425.00 - 525.00
- 95,000 BTU ... 475.00 - 600.00

FORCED AIR FURNACE:
- Add ... 75.00 - 125.00

AUTOMATIC CONTROL:
- Add ... 15.00 - 25.00

HEAT REGISTERS:
- Outlet ... 7.50 - 15.00

INSULATION & WALLBOARD

F.O.B. Warehouse

ROCKWOOL Insulation—		
2" Semi-thick	Per M SF	60.60
3⅜" Full Thick	Per M SF	77.40
COTTON Insulation		
1" Full Thick	Per M SF	43.26
SOFTBOARDS—Wood Fiber—		
½" thick	Per M SF	84.00
1½" thick	Per M SF	275.00
2" thick	Per M SF	385.00
ALUMINUM Insulation—		
80# Kraft paper with alum. foil		
1 side only	Per M SF	18.30
2 sides	Per M SF	31.00
GYPSUM Wallboard—		
⅜" thick	Per M SF	49.50
½" thick	Per M SF	54.50
⅝" thick	Per M SF	83.00
⅜" Gyplap	Per M SF	85.00
HARDBOARDS—Wood Fiber—		
⅛" thick, Sheathing	Per M SF	84.00
¼" thick, Sheathing	Per M SF	90.48
¼" thick, Sheathing	Per M SF	109.20
⅛" thick, Tempered	Per M SF	108.00
¼" thick, Tempered	Per M SF	186.00
¼" thick, Tempered	Per M SF	194.48
CEMENT Asbestos Board—		
⅛" C.A.B. Flat Sheets	Per M SF	151.20
¼" C.A.B. Flat Sheets	Per M SF	208.80
¼" C.A.B. Flat Sheets	Per M SF	270.01

LATH & PLASTER

Diamond 3.40 copper bearing	SY	.56
Ribbed 3.40 copper bearing	SY	.62
⅜" rock lath	SY	.36
1½" Standard Channel	LF	.062
¾" Standard Channel	LF	.045
3¼" steel studs	LF	.092
4" steel studs	LF	.107
Stud shoes	EA	.028
Hardwall, Browning	Sack	1.45
Hardwall, Finish	Sack	1.70
Stucco	Sack	2.50

LATH & PLASTERWORK

CHANNEL FURRING:		
Suspended Ceilings	*SY*	*2.20 - 2.50*
Walls	*SY*	*2.30 - 2.60*
METAL STUD PARTITIONS:		
3¼" Studs	*SY*	*1.70 - 2.00*
4" Studs	*SY*	*1.95 - 2.25*
Over 10'0 high, add	*SY*	*.20 - .30*
3.40 METAL LATH AND PLASTER:		
Ceilings	*SY*	*3.60 - 4.00*
Walls	*SY*	*3.75 - 4.15*
KEENE'S CEMENT FINISH:		
Add	*SY*	*.40 - .60*
ROCK LATH & PLASTER:		
Ceilings	*SY*	*2.50 - 2.80*
Walls	*SY*	*2.60 - 2.90*
WIRE MESH AND ⅞" STUCCO:		
Walls	*SY*	*3.60 - 4.10*
STUCCO ON CONCRETE:		
Walls	*SY*	*2.30 - 2.80*
METAL ACCESSORIES	LF	.20 - .50

LINOLEUM

Lino. Standard Gauge	SY	2.65 - 2.85
Lino. Battleship	SY	2.95 - 3.11
⅛" Asp. tile, Dark	SF	.10 - .11
⅛" Asp. tile, Light	SF	.14 - .16
⅛" Rubber Tile	SF	.40 - .44
.080 Vinyl tile	SF	.20 - .21
.080 Vinyl Asb. tile	SF	.18 - .19
⅛" Vinyl tile	SF	.78 - .82
4" Base, Dark	LF	.15 - .16
4" Base, Light	LF	.24 - .26
Rubber Nosing	LF	.60 - 1.30
Lino Paste	GAL	.75 - .90

Above rates based on quantities of 1000-5000 SF per job.

LUMBER

	M.B.M.
DOUGLAS FIR:	
#1 2x4—2x10	88.00 - 92.00
#2 2x4—2x10	85.00 - 90.00
#3 2x4—2x10	68.00 - 74.00
#4 2x4—2x10	64.00 - 72.00
Clear, Air Dried	180.00 - 210.00
Clear, Kiln Dried	210.00 - 240.00
REDWOOD:	
Foundation Grade	120.00 - 130.00
Construction Heart	110.00 - 120.00
A Grade	180.00 - 210.00
Clear Heart	190.00 - 220.00
D.F. PLYWOOD	M.S.F.
¼" AB	95.00 - 105.00
¼" AD	90.00 - 95.00
¼" Ext. Waterproof	115.00 - 125.00
⅜" AB	130.00 - 145.00
⅜" AD	115.00 - 125.00
⅜" CD	70.00 - 85.00
½" AB	170.00 - 185.00
½" AD	110.00 - 115.00
½" CD	..... - .....
⅝" AB	185.00 - 200.00
⅝" AD	165.00 - 180.00
⅝" CD	115.00 - 125.00
¾" AB	210.00 - 230.00
¾" AD	195.00 - 210.00
¾" CD	125.00 - 140.00
⅝" Plyform	160.00 - 170.00
SHINGLES:	Square
Cedar #1	14.00 - 15.50
Cedar #2	11.50 - 12.50
SHAKES:	
CEDAR	
½ to ¾" Butt	17.50 - 18.50
¾ to 1¼" Butt	18.50 - 19.50
REDWOOD	
¾ to 1¼" Butt	21.00 - 24.00

MILLWORK

All Prices F.O.B. Mill

D.F. CLEAR, AIR DRIED:		
S4S	MBM	220.00 - 250.00
D.F. CLEAR, KILN DRIED:		
S4S	MBM	225.00 - 275.00
DOOR FRAMES & TRIM:		
Residential Entrance		17.00 & up
Interior Room Entrance		7.50 & up
DOORS:		
1⅜" D.F. Slab, Hollow Core		8.00 & up
1¾" D.F. Slab, Solid Core		19.00 & up
1⅜" Birch Slab, Hollow Core		10.00 & up
1¾" Birch Slab, Solid Core		22.00 & up
WINDOW FRAMES:		
D/H Singles	SF	.80
Casement Singles	SF	.90
WOOD SASH:		
D/H in pairs (1 lite)	SF	.45
Casement (1 lite)	SF	.50
WOOD CABINETS:		
¾" D.F. Ply with ¼" ply backs		
Wall Hung	LF	10.00 - 15.00
Counter	LF	12.00 - 17.00

BIRCH OR MAPLE—Add 25%

PAINT

All Prices F.O.B. Warehouse

Thinners—5-100 gals.	GAL.	.57
Turpentine—5-100 gals.	GAL.	1.58
Linseed Oil, Raw	GAL.	2.51
Linseed Oil, Boiled	GAL.	2.57
Primer-Sealer	GAL.	3.10
Enamel	GAL.	5.45
Enamel Undercoaters	GAL.	5.45
White Lead in Oil	LB.	.35
Red Lead in Oil	LB.	.35
Litharge	LB.	.30

PAINTING

EXTERIOR:		
Stucco Wash 1 ct.	*SY*	*.30*
Stucco Wash 2 cts.	*SY*	*.55*
Lead and Oil 2 cts.	*SY*	*.90*
Lead and Oil 3 cts.	*SY*	*1.30*
INTERIOR:		
Primer Sealer	*SY*	*.40*
Wall Paint, 1 ct.	*SY*	*.50*
Wall Paint, 2 cts.	*SY*	*.95*
Enamel, 1 ct.	*SY*	*.60*
Enamel, 2 cts.	*SY*	*1.10*
Doors and Trim	*EA*	*10.00*
Sash and Trim	*EA*	*12.00*
Base and Molds	*LF*	*.12*

Old Work—Add 15-30%

PLUMBING

Lavatories	*EA*	*100.00 - 150.00*
Toilets	*EA*	*200.00 - 300.00*
Bath Tubs	*EA*	*250.00 - 350.00*
Stall Shower	*EA*	*80.00 - 150.00*
Sinks	*EA*	*125.00 - 175.00*
Laundry Trays	*EA*	*80.00 - 130.00*
Water Heaters	*EA*	*100.00 - 300.00*

Prices based on average residential and commercial work. Special fixtures and excessive piping not included.

ROOFING

STANDARD TAR & GRAVEL	Per Square
4 ply	*14.00 - 18.00*
5 ply	*17.00 - 20.00*
White Gravel Finish—Add	*2.00 - 4.00*
Asph. Compo. Shingles	*16.00 - 20.00*
Cedar Shingles	*20.00 - 24.00*
Cedar Shakes	*26.00 - 30.00*
Redwood Shakes	*28.00 - 34.00*
Clay Tiles	*40.00 - 50.00*

SEWER PIPE

VITRIFIED:		
Standard 4 in.	LF	.2
Standard 6 in.	LF	.3
Standard 8 in.	LF	.5
Standard 12 in.	LF	1.1
Standard 24 in.	LF	6.9
CLAY DRAIN PIPE:		
Standard 6 in.	LF	.2
Standard 8 in.	LF	.3

Rate for 100 Lin. Ft. F.O.B. Warehouse

STEEL

REINFORCING BARS:		
¼" rounds	LB	.12
⅜" rounds	LB	.11
½" rounds	LB	.10
⅝" rounds	LB	.10
¾" rounds	LB	.10
⅞" rounds	LB	.10
1" rounds	LB	.10
REINFORCING MESH (1050 SF Rolls)		
6x6 x 10x10	SF	.03
6x6 x 6x6	SF	.06
16 GA. TYING WIRE	LB	.13

Rates 100-1000 Lbs. F.O.B. Warehouse

STRUCTURAL STEEL

$325.00 and up per ton erected when out of mill
$350.00 and up per ton erected when out of stock

SHEET METAL

ROOF FLASHINGS:		
18 ga. Galv. Steel	*SF*	*.60 - 1.0*
22 ga. Galv. Steel	*SF*	*.50 - .9*
26 ga. Galv. Steel	*SF*	*.40 - .8*
18 ga. Aluminum	*SF*	*1.00 - 1.5*
22 ga. Aluminum	*SF*	*.80 - 1.3*
26 ga. Aluminum	*SF*	*.60 - 1.1*
24 oz. Copper	*SF*	*1.90 - 2.4*
20 oz. Copper	*SF*	*1.70 - 2.2*
16 oz. Copper	*SF*	*1.50 - 2.0*
26 ga. Galv. Steel		
4" o.g. gutter	*LF*	*.90 - 1.3*
Mitres and Drops	*EA*	*2.00 - 4.0*
22 ga. Galv. Louvres	*SF*	*2.50 - 3.5*
20 oz. Copper Louvres	*SF*	*3.00 - 4.5*

TILE WORK

CERAMIC TILE, Stock colors:		
Floors	*SF*	*1.95 - 2.4*
Walls	*SF*	*2.05 - 2.5*
Coved Base	*LF*	*1.05 - 1.4*
QUARRY TILE:		
6" x 6" x ½" Floors	*SF*	*1.60 - 2.0*
9" x 9" x ¾" Floors	*SF*	*1.75 - 2.1*
Treads and risers	*LF*	*3.00 - 4.5*
Coved Base	*LF*	*.90 - 1.3*

Mosaic Tile — Rates vary with design and colors
Each job should be priced from Manufacturer.

TERRAZZO & MARBLE

Terrazzo Floors	*SF*	*2.00 - 2.5*
Cond. Terr. Floors	*SF*	*2.20 - 2.7*
Precast treads and risers	*LF*	*3.50 - 4.5*
Precast landing slabs	*SF*	*3.00 - 4.0*

TILE

CERAMIC:

F.O.B. Warehouse

4¼" x 4¼" glazed	SF	.69
4¼" x 4¼" hard glazed	SF	.72
Random unglazed	SF	.73
6" x 2" cap	EA	.17
6" coved base	EA	.22
¼" round bead	LF	.18
QUARRY:		
6 x 6 x ½" Red	SF	.49
6 x 6 x ¾" Red	SF	.52
9 x 9 x ¾" Red	SF	.60
6 x 6" coved base	EA	.21
White Cement Grout	Per 100 Lbs.	6.25

VENETIAN BLINDS

Residential	SF	.40 & Up
Commercial	SF	.45 & Up

WINDOWS

STEEL SASH:		
Under 10 SF	SF	2.50 & Up
Under 15 SF	SF	2.00 & Up
Under 20 SF	SF	1.50 & Up
Under 30 SF	SF	1.00 & Up
ALUMINUM SASH:		
Under 10 SF	SF	2.75 & Up
Under 15 SF	SF	2.25 & Up
Under 20 SF	SF	1.75 & Up
Under 30 SF	SF	1.25 & Up

Above rates are for standard sections and stock sizes F.O.B. Warehouse

CONSTRUCTION INDUSTRY WAGE RATES

Table 1. The rates are the union hourly wage rates established by collective bargaining as of January 2, 1959, as reported by reliable sources.

TABLE 1—UNION HOURLY WAGE RATES, CONSTRUCTION INDUSTRY, CALIFORNIA

Following are the hourly rates of compensation established by collective bargaining, reported as of January 2, 1959 or later

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKER	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85
BOILERMAKER	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675
BRICKLAYER	3.95	3.75	3.75	3.75	3.80	3.75	3.875	3.95	3.80	3.90	3.75	3.80	3.85
BRICKLAYER HODCARRIER	3.15	3.15	3.15	2.90	3.10	2.90	3.00	3.10	2.75	2.75	2.75	2.75	2.75
CARPENTER	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
CEMENT MASON	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.40	3.40	3.40	3.40	3.15
ELECTRICIAN	4.061	4.061	4.061		4.061	3.50	4.16	3.666[A]	3.90	4.15	4.05	3.90	3.70
GLAZIER	3.215	3.215	3.215	3.215	3.215	3.215	3.24	3.215	3.135	3.135	3.135	3.135	3.135
IRON WORKER													
ORNAMENTAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
REINFORCING	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
STRUCTURAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
LABORER, GENERAL OR CONSTRUCTION	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685
LATHER	3.4375	3.84	3.84	3.45	3.60[B]	3.40[C]	3.60[D]	3.50[E]	3.9375		3.725	3.625[F]	
OPERATING ENGINEER													
Concrete mixer (up to 1 yard)	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Concrete mixer operator—Skip Type	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.17	3.17	3.17	3.17	3.17
Elevator Hoist Operator									3.19	3.19	3.19	3.19	3.19
Material Hoist (1 drum)	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19					
Tractor Operator	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.71	3.71	3.71	3.71	3.71
PAINTER													
Brush	3.20	3.25	3.20	3.13	3.325	3.175	3.35	3.20	3.36	3.25	3.19	3.25	3.10
Spray	3.20	3.60	3.20	3.38	3.575	3.325	3.60	3.20	3.61	3.50	3.74	3.80	3.35
PILEDRIVERMAN	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505
PLASTERER	3.69	3.545	3.545	3.35	3.60[B]	3.55[C]	3.58	3.50	4.00	4.00	3.725	3.9375	
PLASTERER HODCARRIER	3.25	3.42	3.42	3.10	3.10	3.00[C]	3.20	3.15	3.6875	3.5625	3.475	3.50	3.6875
PLUMBER	3.67		3.935[I]	3.80[J]	3.925	3.80[J]	3.85	3.80	3.80	3.80	3.80	3.80	3.80
ROOFER	3.35	3.35	3.35	3.20	3.25	3.35	3.60	3.10[K]	3.35	3.25	3.10	3.30	3.775
SHEET METAL WORKER	3.675	3.675	3.675	3.675	3.675	3.685	3.675	3.685	3.70	3.70	3.65	3.45	3.10
STEAMFITTER	3.67	3.96	3.96	3.80[J]	3.70	3.80[J]	3.60	3.675	3.80	3.80	3.80	3.80	3.775
TRUCK DRIVER—													
Dump Trucks under 4 yards	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.83	2.83	2.83	2.83	2.83
TILE SETTER	3.30	3.30	3.30	3.30	3.30	3.30	3.50	3.30	3.70	3.60	3.60	3.60	

A Includes 4% vacation allowance.

B Includes 5c hour for industry promotion and 5c hour for vacation fund.

C ½% withheld for industry promotion.

D 1½c withheld for industry promotion.

E Includes 5c hour for industry promotion and 5c hour for vacation fund. Hourly rate for part of county adjacent to Sacramento County is $3.60.

F Northern part of county; $3.75.

I Includes 30c hour for vacation pay.

J Includes 15c hour which local union may elect to use for vacation purposes.

K Includes 10c hour for vacation fund.

L Includes 10c hour savings fund wage.

CONSTRUCTION INDUSTRY WAGE RATES — TABLE 2

Employer Contributions to Health and Welfare, Pension, Vacation and Other Funds
California Union Contracts, Construction Industry

(Revised March, 1957)

CRAFT	San Francisco	Fresno	Sacramento	San Joaquin	Santa Clara	Los Angeles	San Bernardino	San Diego
ASBESTOS WORKER	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W	.10 W	.10 W
BRICKLAYER	.15 W .14 P .05 hr. V		.15 W .10 P		.15 W			
BRICKLAYER HODCARRIER	.10 W .10 P .10 V	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
CARPENTER	.10 W .10 hr. V	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
CEMENT MASON	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
ELECTRICAL WORKER	.10 W 1% P 4% V	.10 W 1% P 4% V	.075 W 1% P	.075 W 1% P 4% V	1% P	1% P	1% P	.10 W 1% P
GLAZIER	.075 W .085 V	.075 W 40 hr. V	.075 W .05 V	.075 W .05 V	.075 W .085 V	.075 W 40 hr. V	.075 W 40 hr. V	.075 W 40 hr. V
IRONWORKER: REINFORCING STRUCTURAL	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W
LABORER, GENERAL	.10 W	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
LATHER	.60 day W .70 day V		.10 W	.10 W	.075 W .05 V	.90 day W	.70 day W	.10 W
OPERATING ENGINEER TRACTOR OPERATOR (MIN.) POWER SHOVEL OP. (MIN.)	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	10 W .10 W	.10 W .10 W	.10 W .10 W
PAINTER, BRUSH	.095 W	.08 W	.075 W	.10 W	.095 W .07 V	085 W	.08 W	.09 W
PLASTERER	.10 W .10 V	.10 W	.10 W	.10 W	.10 W .15 V	.10 W	.90 day W	.10 W
PLUMBER	.10 W .10 V	.15 W .10 P	.10 W .10 P .125 V	.10 W	.10 W .10 P .125 V	.10 W	.90 day W	.10 W
ROOFER	.10 W .10 V	.10 W	.10 W .10 V	.10 W	.075 W .10 V	.085 W	.10 W	.075 W
SHEET METAL WORKER	.075 W 4% V	.075 W 7 day V	.075 W .10 V	.075 W .12 V	.075 W 4% V	.085 W .10 V	.085 W .10 V	.085 W 5 day V
TILE SETTER	.075 W .09 V				.075 W .09 V	.025 W .06 V		

ATTENTION: The above tabulation has been prepared and compiled from the available data reported by building trades councils, union locals, contracto organizations and other reliable sources. The table was prepared from incomplete data; where no employer contributions are specified, it does not necessarl mean that none are required by the union contract.

The type of supplement is indicated by the following symbols: W—Health and Welfare; P—Pensions; V—Vacations; A—Apprentice training fund; Adm—Admin stration fund; JIB—Joint Industry Board; Prom—Promotion fund.

CLASSIFIED ADVERTISING

RATE: 20c PER WORD . . . CASH WITH ORDER — MINIMUM $5.00

BUILDERS! You can make more money; get information you need before it is published elsewhere; Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

STRUCTURAL DESIGNER, MSCE, available. Experience: planning, administration, economical investigations, design, supervision, inspection, wide variety projects. Specialties: prestressed, shell, and complex structures. For resume: Box 532, Architect & Engineer.

WOOD CARVING, Furniture finishing and Design: Theodore H. Peterson, 10 California Ave., San Rafael. Phone GL 3-7335.

ARCHITECT AND PLANNER with twenty-five years' experience in U.S.A., Europe and Canada in all classes of work seeks connection in California. Own practice for nine years. Write Box 533, The Architect and Engineer Inc., 68 Post St., San Francisco.

ARCHITECTURAL AND STRUCTURAL DESIGNERS AND DRAFTSMEN NEEDED: Permanent employment, modern air conditioned office. Apply Kenny & Cullimore, 2 Niles Street, Bakersfield, California, phone FAirview 7-0256.

WRITING SERVICE — Letters, Applications, Resumes, Manuals. Editing. Ghost Writing. FILECO, 1456 Jones St., San Francisco. Tel. OR 3-6872.

INTERIOR DECORATION HOME STUDY— Announcing new home study course in In terior Decoration. For professional or pe sonal use. Fine field for men and women Practical basic training. Approved supervise method. Low tuition. Easy payments. Fre Booklet. Chicago School of Interior Decora tion, 835 Diversey Parkway, Dept. 929 Chicago 14.

PERMANENT POSITION REQUIRED: Su pervisor or foreman — Architectural Alum num (Store Fronts) — Porcelain Enamel — Ex perienced ten years, Three years, Mechan cal Engineering, three years Civil Enginee ing—Field Work. Write Box No. 534 TH ARCHITECT AND ENGINEER, INC., 6 Post St., San Francisco, Calif.

QUICK REFERENCE

ESTIMATOR'S DIRECTORY

Building and Construction Materials

ACOUSTICAL ENGINEERS
L. D. REEDER CO.
San Francisco: 1255 Sansome St., DO 2-5050
Sacramento: 3026 V St., GL 7-3505

AIR CONDITIONING
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
GILMORE AIR CONDITIONING SERVICE
San Francisco: 1617 Harrison St., UN 1-2000
KAEMPER & BARRETT
San Francisco: 233 Industrial St., JU 6-6200
LINFORD AIR & REFRIGERATION CO.
Oakland: 174-12th St., TW 3-6521
JAMES A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

ALUMINUM BLDG. PRODUCTS
MICHEL & PFEFFER IRON WORKS (Wrought Iron)
So. San Francisco: 212 Shaw Road, PLaza 5-8983
REYNOLDS METALS CO.
San Francisco: 3201 Third St., MI 7-2990
UNIVERSAL WINDOW CO.
Berkeley: 950 Parker St., TH 1-1600

ARCHITECTURAL PORCELAIN ENAMEL
CALIFORNIA METAL ENAMELING CO.
Los Angeles: 6904 E. Slauson, RA 3-6351
San Francisco: Continental Bldg. Products Co., 178 Fremont St.
Portland: Portland Wire & Iron Works, 4644 S.E. Seventeenth Ave.
Seattle: Foster-Bray Co., 2412 1st Ave. So.
Spokane: Bernhard Schafer, Inc., West 34, 2nd Ave.
Salt Lake City: S. A. Roberts & Co., 109 W. 2nd So.
Dallas: Offenhauser Co., 2201 Telephone Rd.
El Paso: Architectural Products Co., 506 E. Yandell Blvd.
Phoenix: Haskell-Thomas Co., 3808 No. Central
San Diego: Maloney Specialties, Inc., 823 W. Laurel St.
Boise: Intermountain Glass Co., 1417 Main St.

ARCHITECTURAL & AERIAL PHOTOGRAPHS
FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

ARCHITECTURAL VENEER
Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle 99: 945 Elliott Ave., West, GA 0330
Spokane: 1102 N. Monroe St., BR 3259
KRAFTILE COMPANY
Niles, Calif., Niles 3611

Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601, Franklin Building
Pasadena 8: P. O. Box 186, East Pasadena Station

Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

BANKS - FINANCING
CROCKER-ANGLO NATIONAL BANK
San Francisco: 13 Offices

BLINDS
PARAMOUNT VENETIAN BLIND CO.
San Francisco: 5929 Mission St., JU 5-2436

BRASS PRODUCTS
GREENBERG'S, M. SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4:1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK
Face Brick
GLADDING McBEAN & CO.
San Francisco: Harrison at 9th, UN 1-7400
KRAFTILE CO.
Niles, Calif., Niles 3611
UNITED MATERIALS & RICHMOND BRICK CO.
Point Richmond, BE 4-5032

BRONZE PRODUCTS
GREENBERG'S M. SONS
San Francisco: 765 Folsom St., EX 2-3143
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Road, PLaza 5-8983
C. E. TOLAND & SON
Oakland: 2635 Peralta St., GL 1-2580

BUILDING HARDWARE
E. M. HUNOLEY HARDWARE CO.
San Francisco: 662 Mission St., YU 2-3322

BUILDING PAPERS & FELTS
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CABINETS & FIXTURES
CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316
THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513
MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815
PARAMOUNT BUILT IN FIXTURE CO.
Oakland: 962 Stanford Ave., OL 3 9911
ROYAL SHOWCASE CO.
San Francisco: 770 McAllister St., JO 7-0311

CEMENT
CALAVERAS CEMENT CO.
San Francisco: 315 Montgomery St.
DO 2-4224, Enterprise 1-2315
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CONCRETE AGGREGATES
Ready Mixed Concrete
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
RHODES-JAMIESON LTD.
Oakland: 333-23rd Ave., KE 3-5225

CONCRETE ACCESSORIES
Screed Materials
C. & H. SPECIALTIES CO.
Berkeley: 909 Camelia St., LA 4-5358

CONCRETE BLOCKS
BASALT ROCK CO.
Napa, Calif.

CONCRETE COLORS—HARDENERS
CONRAD SOVIG CO.
875 Bryant St., HE 1-1345

CONSTRUCTION SERVICES
LE ROY CONSTRUCTION SERVICES
San Francisco, 143 Third St., SU 1-8914

DECKS—ROOF
UNITED STATES GYPSUM CO.
2322 W. 3rd St., Los Angeles 54, Calif.
300 W. Adams St., Chicago 6, Ill.

DOORS
THE BILCO COMPANY
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Popovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

Electric Doors
ROLY-DOOR SALES CO.
San Francisco, 5976 Mission St., PL 5-5089

Folding Doors
WALTER D. BATES & ASSOCIATES
San Francisco, 693 Mission St., GA 1-6971

Hardwood Doors
BELLWOOD CO. OF CALIF.
Orange, Calif., 533 W. Collins Ave.

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108

T. M. COBB CO.
Los Angeles & San Diego

HOGAN LUMBER CO.
Oakland: 700 - 6th Ave.

HOUSTON SASH & DOOR
Houston, Texas

SOUTHWESTERN SASH & DOOR
Phoenix, Tucson, Arizona
El Paso, Texas

WESTERN PINE SUPPLY CO.
Emeryville: 5760 Shellmound St.
GEO. C. VAUGHAN & SONS
San Antonio & Houston, Texas

DRAFTING ROOM EQUIPMENT
GENERAL FIREPROOFING CO.
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070

DRINKING FOUNTAINS
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341

ELECTRICAL CONTRACTORS
COOPMAN ELECTRIC CO.
San Francisco: 85 - 14th St., MA 1-4438

ELECTRICAL CONTRACTORS (cont'd)

LEMOGE ELECTRIC CO.
San Francisco: 212 Clara St., DO 2-6010

LYNCH ELECTRIC CO.
San Francisco: 937 McAllister St., WI 5158

PACIFIC ELECTRIC & MECHANICAL CO.
San Francisco: Gough & Fell Sts., HE 1-5904

ELECTRIC HEATERS

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211

FIRE ESCAPES

MICHEL & PFEFFER IRON WORKS
South San Francisco: 212 Shaw Road, PLaza 5-8983

FIRE PROTECTION EQUIPMENT

FIRE PROTECTION PRODUCTS CO.
San Francisco: 1101-16th St., UN 1-2420

BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

FLOORS

Floor Tile

GLADDING McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-744
Los Angeles: 2901 Las Feliz Bldg., OL 2121

KRAFTILE CO.
Niles, Calif., Niles 3611

Resilient Floors

PETERSON-COBBY CO.
San Francisco: 218 Clara St., EX 2-8714

TURNER RESILIENT FLOORS CO.
San Francisco: 2280 Shafter Ave., AT 2-7720

FLOOR DRAINS

JOSAM PACIFIC COMPANY
San Francisco: 765 Folsom St., EX 2-3142

GAS VENTS

WM. WALLACE CO.
Belmont, Calif.

GENERAL CONTRACTORS

BARRETT CONSTRUCTION CO.
San Francisco: 1800 Evans Ave., MI 7-9700

JOSEPH BETTANCOURT
South San Francisco: 125 So. Linden St., PL 5-9185

DINWIDDIE CONSTRUCTION CO.
San Francisco: Crocker Bldg., YU 6-2718

D. L. FAULL CONSTRUCTION CO.
Santa Rosa: 1236 Cleveland Ave.

HAAS & HAYNIE
San Francisco: 275 Pine St., DO 2-0678

HENDERSON CONSTRUCTION CO.
San Francisco: 33 Ritch St., GA 1-0856

JACKS & IRVINE
San Francisco: 620 Market St., YU 6-0511

RALPH LARSEN & SON
San Francisco: 64 So. Park, YU 2-5682

LINDGREN & SWINERTON
San Francisco: 200 Bush St., GA 1-2980

MacDONALD, YOUNG & NELSON
Oakland: 8907 Railroad Ave.

MATTOCK CONSTRUCTION CO.
San Francisco: 220 Clara St., GA 1-5516

RAPP, CHRISTENSEN & FOSTER
Santa Rosa: 705 Bennett Ave.

STOLTE, INC.
Oakland: 8451 San Leandro Ave., LO 2-4611

SWINERTON & WALBERG
San Francisco: 200 Bush St., GA 1-2980

FURNITURE—INSTITUTIONAL

GENERAL FIREPROOFING CO.
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501

HEATING & VENTILATING

ATLAS HEATING & VENT. CO.
San Francisco: 557-4th St., DO 2-0377

E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., OL 2-6000

LOUIS V. KELLER
San Francisco: 289 Tehama St., JU 6-6252

L. J. KRUSE CO.
Oakland: 6247 College Ave., OL 2-8332

JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

SCOTT COMPANY
Oakland: 1919 Market St., GL 1-1937

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211
Los Angeles: 530 W. 7th St., MI 8096

INSULATION WALL BOARD

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

INTERCEPTING DEVICES

JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3142

IRON—ORNAMENTAL

MICHEL & PFEFFER IRON WKS.
So. San Francisco, 212 Shaw Rd., PL 5-8983

LATHING & PLASTERING

ANGELO I. DANERI
San Francisco: 1433 Fairfax Ave., AT 8-1582

K-LATH CORP.
Alhambra: 909 So. Fremont St., Alhambra

A. E. KNOWLES CORP.
San Francisco: 3330 San Bruno Ave., JU 7-2091

G. H. & C. MARTINELLI
San Francisco: 174 Shotwell St., UN 3 6112

PATRICK J. RUANE
San Francisco: 44 San Jose Ave., MI 7-6414

LIGHTING FIXTURES

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LIGHTING & CEILING SYSTEMS

UNITED LIGHTING AND FIXTURE CO.
Oakland: 3120 Chapman St., KE 3-8711

LUMBER

CHRISTENSEN LUMBER CO.
San Francisco: Quint & Evans Ave., VA 4-5832

ART HOGAN LUMBER CO.
San Francisco: 1701 Galvez Ave., ATwater 2-1157

ROLANDO LUMBER CO.
San Francisco: 5th & Berry Sts., SU 1-6901

WEST COAST LUMBERMEN'S ASS'N
Portland 5, Oregon

MARBLE

JOS. MUSTO SONS-KEENAN CO.
San Francisco: 555 No. Point St., GR 4-6365

VERMONT MARBLE CO.
San Francisco: 6000-3rd St., VA 6-5024

MASONRY

BASALT ROCK CO.
Napa, Calif.
San Francisco: 260 Kearney St., GA 1-3758

WM. A. RAINEY & SON
San Francisco: 323 Clementina St., SU 1-0072

GEO. W. REED CO.
San Francisco: 1390 So. Van Ness Ave., AT 2-1226

METAL EXTERIOR WALLS

THE KAWNEER CO.
Berkeley: 930 Dwight Way, TH 5-8710

METAL FRAMING

UNISTRUT OF NORTHERN CALIFORNIA
Berkeley: 2547-9th St., TH 1-3031
Enterprise 1-2204

METAL GRATING

KLEMP METAL GRATING CORP.
Chicago, Ill.: 6601 So. Melvina St.

METAL LATH—EXPANDED

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

METAL PARTITIONS

THE E. F. HAUSERMAN CO.
San Francisco: 485 Brannan St., YU 2-5477

METAL PRODUCTS

FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100

MILLWORK

CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316

THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513

MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815

PACIFIC MFG. CO.
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, S. C. 607
Los Angeles: 6820 McKinley Ave., TH 4156

SOUTH CITY LUMBER & SUPPLY CO.
So. San Francisco: Railroad & Spruce, PL 5-7095

OFFICE EQUIPMENT

GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

OIL BURNERS

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., GL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia, Pa.: 401 North Broad St.

ORNAMENTAL IRON

MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

PAINTING

R. P. PAOLI & CO.
San Francisco: 2530 Lombard St., WE 1-1632

SINCLAIR PAINT CO.
San Francisco: 2112-15th St., HE 1-2196

D. ZELINSKY & SONS
San Francisco: 165 Groove St., MA 1-7400

PHOTOGRAPHS

Construction Progress

FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

PLASTER

PACIFIC CEMENT & AGGREGATE INC.
San Francisco: 400 Alabama St., KL 2-1616

PLASTIC PRODUCTS

PLASTIC SALES & SERVICE
San Francisco: 409 Bryant St., DO 2-6433

WEST COAST INDUSTRIES
San Francisco: 3150-18th St., MA 1-5657

PLUMBING
BRIGGS MFG. CO.
Warren, Michigan
BROADWAY PLUMBING CO.
San Francisco: 1790 Yosemite Ave., MI 8 4250
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143
LOUIS Y. KELLER
San Francisco: 289 Tehama St., YU 6-6252
JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140
RODONI-BECKER CO., INC.
San Francisco: 455-10th St., MA 1-3662
SCOTT CO.
Oakland: 1919 Market St., GL 1-1937

POST PULLER
HOLLAND MFG. CO.
No. Sacramento: 1202 Dixieanne

PUMPING MACHINERY
SIMONDS MACHINERY CO.
San Francisco: 816 Folsom St., DO 2-6794

ROOFING
ANCHOR ROOFING CO.
San Francisco: 1671 Galvez Ave., VA 4-8140
ALTA ROOFING CO.
San Francisco: 1400 Egbert Ave., MI 7-2173
REGAL ROOFING CO.
San Francisco: 930 Innes Ave., VA 4-3261

ROOF SCUTTLES
THE BILCO CO.
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Popovich, 1703 Fulton St.
Reseda: Daniel Gunner, 6200 Alonzo Ave.

ROOF TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805
SUMMERBELL ROOF STRUCTURES
San Francisco: 420 Market St., EX 7-2796

SAFES
THE HERMANN SAFE CO.
San Francisco: 1699 Market St., UN 1-6644

SEWER PIPE
GLADDING, McBEAN & CO.
San Francisco: 9th & Harrison, UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121

SHEET METAL
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

SOUND EQUIPMENT
STROMBERG-CARLSON CO.
San Francisco: 1805 Rollins Rd., Burlingame, OX 7-3630
Los Angeles: 5414 York Blvd., CL 7-3939

SPRINKLERS
BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

STEEL—STRUCTURAL & REINFORCING
COLUMBIA-GENEVA DIV., U. S. STEEL CORP.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland, Ore.: 2345 N.W. Nicolai, BE 7261
Seattle, Wn.: 1331-3rd Ave. Bldg., MA 1972
Salt Lake City, Utah: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Hayward: Box 3007, LU 1-4451
INDEPENDENT IRON WORKS, INC.
Oakland: 780 Pine St., TE 2-0160
JUDSON PACIFIC MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 New Montgomery St., GA 1-0977
Los Angeles: Edison Bldg.
Seattle: White-Henry Stuart Bldg.
Salt Lake City: Walker Bank Bldg.
Denver: Continental Oil Bldg.

STEEL FORMS
STEELFORM CONTRACTING CO.
San Francisco: 666 Harrison St., DO 2-5582

SWIMMING POOLS
SIERRA MFG. CO.
Walnut Creek, Calif.: 1719 Mt. Diablo Blvd.

SWIMMING POOL FITTINGS
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143

TESTING LABORATORIES (ENGINEERS & CHEMISTS
ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697
ROBERT W. HUNT COMPANY
San Francisco: 500 Iowa, MI 7-0224
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

TILE—CLAY & WALL
GLADDING McBEAN & CO.
San Francisco: 9th & Harrison Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 945 Elliott Ave. West, GA 0330
Spokane: 1102 No. Monroe St., BR 3259
KRAFTILE CO.
Niles, Calif.: Niles 3611
San Francisco: 50 Hawthorne St., DO 2-3780
Los Angeles: 406 So. Main St., MA 7241

TILE—TERRAZZO
NATIONAL TILE & TERAZZO CO.
San Francisco: 198 Mississippi St., UN 1-0273

TIMBER—TREATED
J. H. BAXTER CO.
San Francisco: 200 Bush St., YU 2-0200
Los Angeles: 3450 Wilshire Blvd., DU 8-9591

TIMBER TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805

TRUCKING
PASSETTI TRUCKING CO.
San Francisco: 264 Clementina St., GA 1-5297

UNDERPINNING & SHORING
O. J. & T. SULLIVAN
San Francisco: 1942 Folsom St., MA 1-1545

WALL PAPER
WALLPAPERS, INC.
Oakland: 384 Grand Ave., GL 2-0451

WAREHOUSE AND STORAGE EQUIPMENT AND SHELVING
GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

WATERPROOFING MATERIALS
CONRAD SOVIG CO.
San Francisco: 875 Bryant St., HE 1-1345

WATERSTOPS (P.V.C.)
TECON PRODUCTS, LTD.
Vancouver, B.C.: 681 E. Hastings St.
Seattle: 2 Hanford St.

WINDOW SHADES
SHADES, INC.
San Francisco: 80 Tehama St., DO 2-7092

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

ELEMENTARY SCHOOL, Joaquin Miller, Cupertino, Santa Clara county. Cupertino Union School District, owner. New 7th and 8th grade school, 14-classrooms, 2 science rooms, shops, home making, music, library, multi-purpose rooms, kitchen, toilets; wood frame and structural steel—$681,000. ARCHITECT: Kal H. Porter & Geo. S. Notle, architects and engineers, 3850 Middlefield Rd., Palo Alto. GENERAL CONTRACTOR: E. H. Moore & Sons, 693 Mission St., San Francisco.

COLLEGE ADD'N., Diablo Valley College, Concord, Contra Costa county. Contra Costa Junior College District, Martinez, owner. Brick and concrete construction of a science building addition to the present facilities of the college—$521,359. ARCHITECT: John C. Warnecke, 111 New Montgomery St., San Francisco. GENERAL CONTRACTOR: Romley Const Co., 2700 Mt. Diablo Blvd., Walnut Creek.

RESTAURANT, San Jose, Santa Clara county. Joe's Pic-a-Rib, San Jose, owner. 1-Story wood frame, built-up roofing, approximately 3,000 sq. ft. area—$47,950. ARCHITECT: Fred J. Marburg, 156 E. Jackson St., San Jose. GENERAL CONTRACTOR: Warren Crinklaw Const Co., 1194 Janis Way, San Jose.

ELEMENTARY SCHOOL, Horace Mann, Oakland, Alameda county. Oakland Unified School District, owner. 1-Story, reinforced concrete and 2-story wood frame, and wood frame and stucco buildings to provide facilities for administration unit, 13 classrooms, multi-purpose room, kindergarten, library and allied facilities—$479,600. ARCHITECT: Ponsford & Price, 524-20th St., Oakland. GENERAL CONTRACTOR: E. H. Moore & Sons, 693 Mission St., San Francisco.

TRAILER CENTER, San Pablo, Contra Costa county. Don L. Kimball, 10174 San Pablo Ave., El Cerrito, owner. Construction of an addition to present facilities to provide for an additional 82 Trailer spaces, patio, 30' x 60'. Recreation building, offices, utility buildings with washers, dryers, and showers and toilets—$165,000. ARCHITECT: Barabachano, Ivanitsky & Watanabe, 11484 San Pablo Ave., El Cerrito. GENERAL CONTRACTOR: Arthur Ceballos, 1234 Brewster Dr., El Cerrito.

RESTAURANT, Fresno. Dr. George Miyake, Fresno, Owner. 1-Story, structural steel frame; 4250 sq. ft. area, Uncle John's Pancake House restaurant building; seating for 180 person, blacktop paving and parking space for 90 cars—$100,000. ARCHITECT: Akira Nishioka, 3504 S.

Elm Ave., Fresno. GENERAL CONTRACTOR: R. G. Fisher Co., P.O. Box 4081, Fresno.

NEW CHURCH, Sacramento. Chinese Community Church, owner. Work comprises construction of a Sanctuary, Social Hall and Classrooms; two buildings of contemporary design, wood frame construction — $97,000. ARCHITECT: Schmidts, Hardman & Wong, 1320 University Ave., Berkeley. GENERAL CONTRACTOR: Charles F. Unger, 2112 Sutterville Road, Sacramento.

COUNTRY CLUB, Salinas, Monterey county. Country Club to include tennis courts, swimming pool, cabanas, dressing rooms; main structure to be of wood frame construction with wood exterior—$296,900. CONSULTING ENGINEERS: Cline, Zerkle & Agee, 1810-6th St., Berkeley. GENERAL CONTRACTOR: George W. Davis Const., 2600 E. Lake Ave., Watsonville.

RECEPTION GUIDANCE CENTER, Tracy, San Joaquin county. State of California, Public Works Dept., Sacramento, owner. New facilities at the Deuel Vocational Institute consisting of two three-story cell blocks and administration and vocational training building, 80,000 sq. ft. of area—$1,298,500. ARCHITECT: Anson Boyd, California State Architect, Sacramento, California. GENERAL CONTRACTOR: Carvers Const. Co., P.O. Box 484, Stockton.

SEWAGE PLANT, Stratford, Kings county. Stratford Public Utilities District, owner. Construction comprises construction of a reinforced concrete sewage treatment plant and collection system—$83,710. ENGINEERS: Braun & Pasillas, Engineers, 2912 N. Blackstone St., Fresno. GENERAL CONTRACTOR: North Bay Const. Co., 560 Boyd St., Santa Rosa.

BRANCH BANK, Oakland, Alameda county. Bank of America, San Francisco, owner. 1-Story and mezzanine, concrete tilt-up construction, concrete slab floors—$141,340. ARCHITECT: Continental Service, 260-5th St., San Francisco. GENERAL CONTRACTOR: Harold Reid, 6425 Estates Dr., Oakland.

CHURCH & SCHOOL RESIDENCE, St. Philip Meri, Alameda. Archdiocese Building Committee, San Francisco, owner. Wood frame and stucco construction, concrete slab, built-up roofing to provide facilities for Church to seat 600, School Administration offices, 8-classrooms, faculty residence for 9-teachers, and toilets—$357,995. ARCHITECT: George Seuer, 705 Maud St., San Leandro. GENERAL CONTRACTOR: Anthony Morsilli, 8060 Crescent Ave., Hayward.

CAFETERIA, Ferndale, Humboldt county. Board of Supervisors, Humboldt county, Eureka, owner. Concrete slab on grade, wood frame, pre-formed plywood vault roof, acoustical ceilings cafeteria building at the Ferndale Fair Grounds—$39,576. ARCHITECT: Gerald D. Matson, 537 "G" St., Eureka. GENERAL CONTRACTOR: Elvin Coppini, Van Ness Ave., Ferndale.

NEW ELEMENTARY SCHOOL, San Pablo,, Contra Costa county. San Pablo School District, owner. New Dover Elementary school comprising administration area, 16-classrooms, 2-kindergartens and toilet facilities; wood frame, aluminum window walls, composition roofing—$354-282. ARCHITECT: Schachtman & Velikinia, 333 Maryland St., Vallejo. GENERAL CONTRACTOR: Carl Overaa & Co., 520-16th St., Richmond.

OFFICE BLDG., Arcata, Humboldt county. Arcata Redwood Co., owner. New wood frame office building approximately 8000 sq. ft. of area—$110,857. ARCHITECT: William Van Fleet, 350 "E" St., Eureka. GENERAL CONTRACTOR: Ole Antonsen, 4255 Broadway, Eureka.

HIGH SCHOOL ADD'N., Porterville, Tulare county. Porterville Union High School District, owner. Work comprises construction of classroom units to existing buildings — $195,174. ARCHITECT: Eddy & Paynter, 2901 "H" St., Bakersfield. GENERAL CONTRACTOR: Fidler & Dorei, 619 N. Blackstone St., Tulare.

SWIMMING POOL, Brookside Club, Saratoga, owner. Construction of a swimming pool and allied recreation club facilities — $28,350. ARCHITECT: William May, 1565 The Alameda, San Jose. GENERAL CONTRACTOR: Landon, Inc., 425 Old County Rd., Belmont.

ELEMENTARY SCHOOL ADD'N, Fred Martin Elementary School, San Jose, Santa Clara county. Mt. Pleasant School District, San Jose, owner. 1-Story wood frame construction to provide facilities fo 10-classrooms, and some site work—$182, 287. ARCHITECT: Higgins & Root, 22(Meridian Rd., San Jose. GENERAL CON TRACTOR: Leonard Semas & Co., 288' Homestead Rd., Santa Clara.

FAIR GROUNDS, Los Banos, Merce county. County of Mecred, owner. Con crete block and glued laminated woo beams fair grounds buildings to provid facilities for Floriculture exhibits and addi tions to the directors and administratio building—$59,790. ARCHITECT: Ray mond Franceschi, 2015 "J" St., Sacra mento. GENERAL CONTRACTOR: Te Falasco, Mercy Springs Rd., Box 952, Lo Banos.

CHURCH ADDITION, Daly City, Sa Mateo county. Emanuel Evangelical Unite Brethren Chucrh, San Francisco, owne Construction includes classrooms and re ception area to present church building— $57,367. ARCHITECT: Alfred W. John son & William Sargent, Associates, 16 Jessie St., San Francisco. GENERA CONTRACTOR: Joel Johnson & Son 1585 Church St., San Francisco.

FURNITURE STORE, Mountain View Santa Clara county. Roth Company, Lo Altos, owner. 2-story building to provid facilties for complete furniture store 14,000 sq. ft. area—$150,000. ARCHI TECT: Kenneth Elvin, Bank of Americ Bldg., Palo Alto. GENERAL CONTRAC TOR: Vance M. Brown & Sons, P.O. Bo 906, Palo Alto.

CHURCH ADD'N, Visalia, Tulare county Visalia Methodist Church, Visalia, owne 1-Story wood frame and brick constructio to provide facilities for an educationa building $74,870. ARCHITECT: Robe C. Kaestner, 210 N. Encina St., Visali GENERAL CONTRACTOR: Walker & Walker, 825 Princeton St., Fresno.

POLICE STATION ADD'N., Watson ville,, Santa Cruz county. City of Watson ville, owner. Reinforced concrete an structural steel joist and roof framin addition to existing police station building comprises area for offices and some ja remodeling — $66,884. ARCHITECT Easterley, Fox & Easterley, 345 Abbott St Salinas. GENERAL CONTRACTOR: T H. Rosewall, P.O. Box 998, Watsonville.

WING & DIRECTORS ROOM, Fai grounds, Merced. Merced County Sprin Fair Board & Livestock Show, Merce owner. Concrete block, glued-laminate beams, acoustical ceiling addition to exis ing buildings to provide a Floricultur Wing and Directors room—$59,790. AR CHITECT: Raymond Franeschi, 2015 "J St., Sacramento. GENERAL CONTRAC TOR: Ted Falasco, Mercy Springs Roa Box 952, Los Banos.

SCHOOL, Wheatland, Yuba count Wheatland Union High School Distric Wheatland, owner. Constructed with "I beam roof, concrete; facilities for admi istration unit, 10-classrooms, 2-kinderga tens, multi-use room, kitchen, and toil facilties—$506,820. ARCHITECT: Go don Stafford, 1024½ "J" St., Sacrament GENERAL CONTRACTOR: The Pacif Company, 801 Cedar St., Berkeley.

PARISH HALL & SCHOOL, Cupertin Santa Clara county. Archdiocese of Sa Francisco, owner. Wood frame and stucc

CLASSIFIED ADVERTISING

Do YOU want to hire, buy, sell, rent, find, lose, and otherwise transact business with others in the Construction Industry? If so, your best bet is a CLASSIFIED ad in ARCHITECT & ENGINEER magazine.

SELL that used equipment at a good price; secure competent employees; buy good used equipment; obtain information on wanted materials, etc.

Rates are low 20 cents per word—cash with order—minimum 3 lines. "Position Wanted" ads are half-rate.

Forms close 20th of month preceding date of publication.

ARCHITECT & ENGINEER
MAGAZINE
68 Post Street **San Francisco**

concrete slab floors, some structural steel, composition roofing to provide facilities for 4-classrooms, storage and toilet school building, and a Parish Hall with stage and folding partitions — $137,900. ARCHITECT: Henry V. Chescoe, 1636 Bush St., San Francisco. GENERAL CONTRACTOR: Don Gordon, P.O. Box 645, Los Altos.

INTERMEDIATE SCHOOL, Placentia, Orange county. Placentia Unified School District, owner. New Kraemer Intermediate School will provide facilities for 300 students; 10-classrooms, administration unit; also additions to Valencia High School comprising industrial arts, homemaking, science and music units, cafeteria, girls' gymnasium and classrooms. ARCHITECT: Pleger, Blurock, Haugan and Ellerbroek. GENERAL CONTRACTOR: Carl O. Larson.

COMMUNICATIONS CONTROL CENTER, Porterville, Tulare county. City of Porterville, owner. Work comprises facilities to house the city's fire department alarm system and civil defense systems—$25,800. ARCHITECT: Jay Hoerner, 210 N. Encina St., Visalia. GENERAL CONTRACTOR: Glenco Const Co., 505 E. Norton St., Porterville.

HIGH SCHOOL ADD'N., Loyalton, Sierra county. Sierra-Plumas Joint Unified School District, Downieville, owner. Wood frame construction to provide classroom building, shop, laboratory, lockers and toilet facilities—$250,250. ARCHITECT: Vahy & Grow, 33 E. Truckee River Lane, Reno, Nevada. GENERAL CONTRACTOR: Staiger Const. Co., 260 Sunshine Lane, Reno, Nevada.

MARKET, Berkeley, Alameda county. Park & Shop Markets, Berkeley, owner. 1-Story structural steel and pre-cast concrete construction — $300,000. ARCHITECT: Sabaroff, Marquis & Stoller, 737 Beach St., San Francisco. GENERAL CONTRACTOR: The Pacific Company, 801 Cedar Street, Berkeley.

SCHOOL ADD'N., Cotati, Sonoma county. Cotati School District, owner. New facilities to existing school building to provide 3-classrooms—$6,381. ARCHITECT: C. A. Caulkins, Jr., Rosenberg Bldg., Santa Rosa. GENERAL CONTRACTOR: Gorman B. Hodges, 324 Yolanda Ave., Santa Rosa.

ELEMENTARY SCHOOL ADD'N., Anna Yates School, Emeryville, Alameda county. Emeryville Unified School District, owner. Second phaze of additional facilities to present school buildings; Cafeteria, library, multiple-purpose unit, heating plant, conversion of auditorium into classrooms; wood frame and some steel construction, built-up composition roof—$149,290. ARCHITECT: Lyman Jee & Jack Anderson and Withold Miller, 100 Berkeley Square, Berkeley. GENERAL CONTRACTOR: Fred C. Von Guenthner, P.O. Box 154, Orinda.

HIGH SCHOOL ADD'N., Monterey. Monterey Union High School District, owner. Additions to present plant includes Science wing of 6 classrooms, mathematics wing of 3-classrooms, and addition of special classrooms; 1 and 2 story construction, wood frame and concrete foundations, curtain walls—$407,700. ARCHITECT: Wallace Holm & Associates, 321 Webster Street, Monterey. GENERAL CONTRACTOR: Harold C. Geyer, P.O. Box 1190. Monterey.

HOSPITAL ADD'N, Yuba City, Sutter county. Sutter County, Yuba City, owner. Work comprises construction of two detention cells, fireproof—$8,343. GENERAL CONTRACTOR: Lamon Construction Co., 881 Market St., Yuba City.

ELEMENTARY SCHOOL ADDN., Merriewood School, Lafayette, Contra Costa county. Lafayette School District, owner. 1-story, structural steel frame, wood partitions, stucco, concrete slab floors, wood floors; facilities for administration unit, 9 classrooms, kindergarten, library, work and store rooms, janitor's utility room, mechanical and electrical work and some site development—$296,953. ARCHITECT: Falk & Booth, 16 Beale St., San Francisco. GENERAL CONTRACTOR: Pagni Const. Co., 84 Bishop Road, Crockett.

AIRPORT REMODEL, South San Francisco, San Mateo county. City of San Francisco, owner. Work consists of installation of two escalators between ground and main floor; stairway between two escalators; some demolition, cutting and refinishing around escalator wall; enclosure counters on ground floor — $157,766. GENERAL CONTRACTOR: Arntz Bros., 1745 Filbert St., San Francisco.

FERTILIZER PLANT, Helm, Fresno county. Valley Nitrogen Producers, Inc., Helm, owner. Construction of a new fertilizer plant on a 125-acre site near Helm; facilities for employment of 60 persons—$9,000,000. DESIGNER: Chemical Const. Co., New York City, N. Y. GENERAL CONTRACTOR: Chemical Const. Co., New York.

ANIMAL HOSPITAL, Sacramento. Dr. Mueller, Sacramento, owner. Concrete block and frame construction—$39,805. ARCHITECT: Rickey & Brooks, 2015 J St., Sacramento. GENERAL CONTRACTOR: Fred Marsalla, 3990 71st St., Sacramento.

HIGH SCHOOL, Tulare. Tulare Union High School District, owner. Prestressed concrete tilt-up construction; composition roof, site work, sewers, gas and electric service; to provide facilities for administration unit, 12 classrooms, science room, home economics, 2 shops, cafeteria, shower and locker rooms, toilet facilities—$525,000. ARCHITECT: Robt. C. Kaestner, 210 N. Encina, Visalia. GENERAL CONTRACTOR: Clarence Ward Const., 4323 Harvey St., Fresno.

OFFICE & WAREHOUSE, Fresno. Navajo Freight Lines, Fresno, owner. Construction of a new warehouse and general offices for the Navajo Freight Lines—$54,095. ENGINEER: Harold Schlintz, 3752 E. Belmont St., Fresno. GENERAL CONTRACTOR: Robert Jolly Const., 4564 E. Taylor St., Fresno.

HIGH SCHOOL ADDN., Willow Glen, San Jose, Santa Clara county. San Jose Unified School District, owner. 1-story, wood and structural steel, cafeteria building — $223,240. ARCHITECT: Hollis Logue, Jr., 275 No. 4th St., San Jose. GENERAL CONTRACTOR: Alken Const. Co., 333 Phelan Ave., San Jose.

ON EXHIBIT
CONSTRUCTION MATERIALS CENTER
330 Clay Street, San Francisco

REMILLARD-DANDINI Co.
Brick and
Masonry Products
★
400 MONTGOMERY STREET
SAN FRANCISCO, CALIF.

Scott Company
HEATING • PLUMBING
REFRIGERATION
★
San Francisco
Oakland
San Jose
Los Angeles

ARCHITECT
and
ENGINEER
Please enter my subscription for ..... year..... My check in the amount of $..... is attached.
1 year $3.00
2 years . . . 5.00
Name.....
City.....
State.....

IN THE NEWS

YUBA CONSOLIDATED INDUSTRIES HAVE NEW DIVISION

Announcement of the formation of Yuba Consolidated Erectors, Inc., a division of Yuba Consolidated Industries, Inc., has been made by John L. McGara, president and board chairman.

The new division will perform on a national basis, all field erection work for Yuba's heavy steel fabricating divisions.

J. Philip Murphy will serve as president of the new Division and Francis J. Murphy will be vice president and general manager. Both men are nationally known in the fields of steel fabrication and erection.

Headquarters of the new division will be maintained at 351 California Street, San Francisco, California.

"CHARMGLO" GAS LAMPS ARE NEWEST FEATURE FOR HOME

Creation of a beautiful new line of traditional gas lamps for today's trend toward outdoor illumination has been announced by Modern Home Products.

Made of solid copper or cast aluminum, these lamps are beautifully proportioned and are available in a variety of finishes. Superior manufacturing processes have resulted in finer burners and highest quality performance. For complete data write Modern Home Products, Russell, Ill.

GEORGE C. OISTAD NAMED GENERAL SALES MANAGER

George C. Oistad has been appointed general sales manager of the Olympic Stained Products Company of Seattle, Washington, according to a recent announcement by Philip W. Bailey, firm president.

Widely experienced in sales and sales management, Oistad has been in charge of the specialty sales department of Schwabacher Hardware Co., and prior to that was connected with Sunset Electric Company of Seattle, joining Olympic in 1958 as sales promotion manager.

ENGINEER NAMED VICE PRESIDENT FOREST LAWN PARK

George J. Jones, West Los Angeles, has been named vice president in charge of the maintenance and construction division at Forest Lawn Memorial-Park, Los Angeles, according to a recent announcement by Frederick Llewellyn, executive vice president of the institution.

Jones, a graduate in engineering from Notre Dame University, formerly resided in South Bend, Ind., where he was vice president and general manager of Place Homes, Inc.

JONES CONSTRUCTION AWARDED RECOGNITION FOR SAFETY RECORD

The new H. B. Alexander Award for the Associated General Contractor of America with the most outstanding safety record for 1958 has been presented to the J. A. Jones Construction Company of Richland, Washington.

The H. B. Alexander Award was instituted for the company which established a record of no lost-time accidents with the greatest man-hour exposure and consists of a handsome bronze plaque mounted on walnut.

Merit Awards were also presented to

STROMBERG-CARLSON®

SOUND EQUIPMENT

These authorized distributors offer complete specification and planning assistance, installation and guarantee — on famous Stromberg-Carlson sound, public address and intercom systems:

S-C STROMBERG-CARLSON

DISTRICT OFFICES

SAN FRANCISCO
STROMBERG-CARLSON COMPANY
1805 Rollins Road,
Burlingame ..... OXford 7-3630

LOS ANGELES
STROMBERG-CARLSON COMPANY
5415 York Blvd. ..... CLinton 7-3939

ENGINEERING DISTRIBUTORS

FRESNO
TINGEY COMPANY
847 Divisadero St. ..... ADams 7-6468

LOS ANGELES
HANNON ENGINEERING, INC.
5290 West Washington Blvd. ..... WEbster 6-5178

OAKLAND
CUSTOM ELECTRONICS
963 32d Street ..... OLympic 3-4179

PHOENIX
RA-TONE ELECTRONICS CO., INC.
325 No. 4th St. ..... ALpine 8-8793

SACRAMENTO
SEMONI SOUND SERVICE
2181 Weller Way ..... GIlbert 3-6438

SAN DIEGO
MUSIC SERVICE, INC.
2408 Fifth Ave. ..... BElmont 2-2589

SAN FRANCISCO
CUSTOM ELECTRONICS
2090 Evans St. ..... MIssion 8-2534

SAN JOSE
CUSTOM ELECTRONICS
87 Bassett St. ..... CYpress 3-4300

SEATTLE
W. D. LASATER COMPANY
615 No. 35th St. ..... MElrose 2090

SPOKANE
NORTHWEST ELECTRONICS, INC.
No. 102 Monroe St. ..... MAdison 9289

PORTLAND
MANCHESTER-CHANDLER CO.
2915 N.E. Alberta St. ..... GA 8600

Testing & Inspection of All Architectural and Construction Materials

Metallurgists • Chemists Radiographers

Tests and Investigations of Foundation Soils

PITTSBURGH TESTING LABORATORY
651 Howard St., San Francisco 5
Phone: EXbrook 2-1747
Offices in all principal cities

Attention: Mr. Architect and Engineer

The Lathing and Plastering Industry offers complete specification and planning assistance. This service is free with absolutely no obligation attached. Call or write the office in your area for immediate service.

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue
San Carlos LYtell 3-2634
Serving San Mateo and Santa Clara Counties.

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street
Oakland 12 GLencourt 2-0313
Serving Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16
GLadstone 1-1879
Serving Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

Holmes & Narver, Inc., Los Angeles; H. Halvorson, Inc., Yardley, Washington; J. & K. Construction Co., Denver, Colorado; Los Alamos Constructors, Inc., Los Alamos, New Mexico; Quality Builders, Tacoma, Washington; K. L. House Construction Co., Albuquerque, New Mexico; Midstate Construction Co., San Francisco.

All awards were presented at the 40th Annual Convention of the AGC in Miami Beach, Florida, recently.

ARCHITECTURAL METAL MANUFACTURERS SCHEDULE MEETING IN NEW ORLEANS

The 21st Annual Convention of the National Association of Architectural Metal Manufacturers will be held April 12-27 at the Monteleone Hotel in New Orleans, Louisiana, according to an announcement by William N. Wilson, Executive Secretary, Chicago.

EDMUND B. McDONALD BECOMES INTERESTED IN CONSTRUCTION FIRM

Edmund B. MacDonald has become a stockholder in the San Francisco-Oakland general construction firm of MacDonald, Young & Nelson, Inc., according to a recent announcement by Graeme K. MacDonald, president of the construction firm. Stock interest hitherto owned by Dallas (Pete) Young, who is retiring after having been a member of the firm for 13 years, has been acquired by the remaining firm members.

E. B. MacDonald is also a partner in the MacDonald Products of San Francisco.

MacDonald, Young & Nelson, Inc. will make no change in the firm's name, or location at 8907 Railroad Avenue, Oakland.

NEW MANUFACTURING PLANT SCHEDULED SOUTH SAN FRANCISCO

Architect J. Francis Ward, 215 Leidesdorff Street, San Francisco, is preparing preliminary plans for construction of a new manufacturing plant in South San Francisco for the Wells Mfg. Co., of San Francisco.

The new plant will be located on a 2-acre site and will contain some 50,000 sq. ft. of floor area.

PLANNING NEW SACRAMENTO CHURCH

The Memorial Lutheran Church of Sacramento will build a new church building of approximately 22,000 sq. ft. in area in Portola Way in Sacramento, according to a recent announcement.

The new facilities are being designed by Satterlee & Tomich, architects of 1521 "I" Street, Sacramento, and will be of concrete construction costing an estimated $200,000.

SEWAGE TREATMENT PLANT PLANNED FOR WATSONVILLE

Architect Peter G. Wuss, 2256 Woodland Ave., San Jose, and Brown and Caldwell, Civil Engineers, 66 Mint Street, San Francisco, are preparing plans and specifications for construction of a new sewage treatment plant for the City of Watsonville.

The new facilities will cost an estimated $800,000.

COUNTY BUILDINGS PLANNED FOR TULARE

The Tulare county board of supervisors have commissioned the architectural firm of Stuhr & Hicks, 924 Truxton Ave., Bakersfield, to prepare preliminary plans and design for a new Tulare County Building comprising a county jail and allied facilities to be constructed near the new County Courthouse.

The proposed building of reinforced concrete and steel will cost an estimated $1,250,000.

PACIFIC IRON AND STEEL NAME NEW SALES REPS

James H. Spence and Lynn Gawan have replaced Don L. Geisert as sales representatives in the San Francisco office of the Pacific Iron & Steel Corporation, according to a recent announcement.

Pacific Iron & Steel Corporation's San Francisco offices are located in the Russ Building. The firm fabricates and erects structural steel and longspan steel roof deck for industrial and aircraft facilities, and furnished this material for the recently completed United Air maintenance hangars at San Francisco's International Airport.

SAKS FIFTH AVENUE PALM SPRINGS STORE

Construction on the Saks Fifth Avenue store in Palm Springs will be completed this year according to owners Arthur Gilbert and Edward Rothschild, Beverly Hills industrial and commercial developers.

Designed by Welton Becket and Associates, the project is a single story building, emphasizing the desert styling so unique in Palm Springs. Indian touches and desert landscaping will be evident in the completed building.

A large area has been devoted to parking, with four driveways leading to the parking area adequate to handle some 200 automobiles at a time.

JOSEPH M. WALSH NAMED WESTERN SALES ENGRNG. ADVISOR FOR SEDGWICK

Joseph M. Walsh has been appointed Western Sales Engineering Advisor for

RIVIERA
HOTEL Las Vegas
Truly Magnificent
LIVE IN RELAXED LUXURY ...THE NEW WESTERN WAY ...BY COMBINING PARK AVENUE ELEGANCE AND DOWN-TO-EARTH WESTERN COMFORT

Now Appearing . . .

THE GEORGE GOBEL SHOW with GEORGIA GIBBS

Call your local travel agent for reservations . . . because the Riviera is THE place to go!

Opening March 9th

DENNIS DAY

Construction News on Radio!

LISTEN EVERY WEEK

KNBC
San Francisco
SATURDAYS, 8:45 A.M.

•

KSRO
Santa Rosa
SATURDAYS, 12:15 P.M.

•

KCRA
Sacramento
SUNDAYS, 10:30 A.M.

•

KFIV
Modesto
FRIDAYS, 6:00 P.M.

The Construction Industry's Voice on the Air

Sponsored by

Calaveras Cement Co.

Sedgwick representatives in the West Coast and Mountain States, according to a recent announcement by officials of the Sedgwick Machine Works.

Walsh, a resident of Spokane, Washington, where he will maintain offices, has served Sedgwick as Chief Engineer, vice-president, and Director.

RALPH LARSEN & SON MOVE INTO NEW OFFICES

Ralph Larsen & Son, General Contractors, recently moved into new offices at 62 South Linden Avenue, South San Francisco.

PORTLAND CEMENT INFORMATION BUREAU

The Portland Cement Information Bureau, 564 Market Street, San Francisco, has announced the appointment of J. E. Jellick as consulting engineer for the Bureau.

A registered professional Civil Engineer, Jellick is a veteran of 30 years in the cement industry, being associated with the Portland Cement Association for 16 years prior to becoming manager of the Portland Cement Information Bureau, serving the Association as field engineer, district engineer in the Los Angeles and San Francisco offices, and finally as Pacific Coast manager.

Jellick is a former director and at present a member of the American Concrete Institute; belongs to the Structural Engineers Association of Northern California;

Society of American Military Engineers the San Francisco Parking Authority, an the Olympic Club.

The Portland Cement Information Bureau is supported by Calaveras Cemen Company, Pacific Cement & Aggregate Inc., and Permanente Cement Company It serves the construction industry Northern California and Western Nevada

KEITH E. HALL IS NAMED OFFICIAL REYNOLDS ALUMINUM

Keith E. Hall, a native of Oregon an graduate of the University of Oregon i 1930, has been appointed a vice-presider of the Reynolds Aluminum Company, ac cording to an announcement by David P Reynolds, executive vice president of Rey nolds Metals Company.

Hall joined the Reynolds company i 1946 and was stationed in the company' Washington office before being transferre to Louisville, Ky. He was made director o industrial markets in December 1956, an general manager of industrial markets i December 1957. Hall makes his office i Richmond, Virginia.

ROSEVILLE DISTRICT HOSPITAL PLANS EXPANSION

The Roseville District Hospital Associa tion, Placer county, has commissioned architect Rex Allen of 693 Mission Street San Francisco, to prepare plans and desig a $400,000 addition to the Roseville Dis trict Hospital.

The work of wood frame, interior parti tions, concrete block exterior walls, wood frame roof and concrete slab floors, would provide facilities for new administrativ office, central supply room, kitchen an laundry additions, 18-beds additions, new X-ray department, new laboratory and ma ternity department and doubling of th surgical facilities.

NEW SCIENCE BUILDINGS ARE DEDICATED AT POMONA COLLEGE

Two new science buildings, designed b the architectural firm of Smith, Powell & Morgridge of Los Angeles to meet Pomo na College's research approach to scienc instruction, were dedicated early las month by Dr. Detlev W. Bronk, presiden of the National Academy of Sciences an of the Rockefeller Institute.

The buildings represent an overall in vestment of $3,250,000 and were mad possible by Frank R. Seaver, Los Angele

VALUABLE NEWS SERVICE

- **BUILDING MATERIAL DEALERS**
- **CONTRACTORS**
- **SUB-CONTRACTORS**
- **MANUFACTURERS AND REPRESENTATIVES**

ARCHITECTS REPORTS gives advance news on construction projects in Northern California, lists: name of projects, location, architect, proposed cost and other pertinent information.

HANDY individual slip-reports, issued daily at a total cost of only
$10 a month

ARCHITECT'S REPORTS
Published Daily
The ARCHITECT and ENGINEER, Inc.

68 Post Street, San Francisco - DO 2-8311

ARCHITECT and ENGINEER

Please enter my subscription for ..... year. ..... My check in the amount of $ ..... is attached.

1 year $3.00
2 years 5.00

Name .....

City.....

State.....

industrialist and an alumnus and trustee of Pomona College.

One building will house the physics, mathematics and astronomy departments, the other will house the biology and geology departments. Each building is three stories high and is built of steel reinforced concrete with pitched tile roof.

E. O. ANDERS ELECTED CHAIRMAN OF BOARD ALL-BRITE COMPANY

E. O. Anders, has been elected Chairman of the All-Brite Fluorescent Fixture Company of South San Francisco, and C. D. Buchanan has been advanced to the Presidency.

Anders was the original founder of the All-Brite line of fixtures, and was President of Fluorescent Fixtures of California. Plans were also announced for the expanded distribution of All-Brite products into Eastern, Southern and Midwestern markets.

Plants are maintained in Los Angeles, Seattle, Vancouver, B.C., as well as San Francisco.

PEMKO MFG. CO. MOVES PLANT IN EMERYVILLE

Paul Kops, president of the Pemko Manufacturing Company, recently announced the removal of his firm's activities to new quarters at 5755 Landregan Street in Emeryville, California.

The new facilities will provide more than 25,000 sq. ft. of area and will enable the firm to better serve its customers in the field of job roll forming to special shapes, and in the manufacture of glazing bead.

MARVIN G. STURGEON APPOINTED VICE PRESIDENT CHAS. LUCKMAN ASSOC.

Marvin G. Sturgeon, Ventura county director of public works for the past three years, has been named a vice president of Charles Luckman Associates, planning-architectural-engineering firm of Los Angeles and New York.

As Ventura county Director of Public Works, Sturgeon has planned and supervised the public works activity including roads, subdivision improvements, public buildings and parks, engineering, water supply, flood control and drainage, harbor surveying, and building inspection.

He previously served Ventura county as Director of Airports from 1946 to 1950 and, after being recalled to military service with the Air Force in 1951, as assistant director of public works for two years prior to his present position. He is a licensed civil engineer in California, was born in Los Angeles and graduated from the University of California at Berkeley in 1935 with a B.S. degree in civil engineering.

DRYWALL CONTRACTORS ASSOCIATION CALIFORNIA ELECT NEW OFFICERS

Reuben Casey of Garden Grove and Ed Busch of La Canada, were recently elected secretary and treasurer, respectively of the California Drywall Contractors Association.

Fred O'Haver of Campbell was named president, and John Marton of Sacramento, was elected vice president.

Named to serve on the Board of Directors were: Paul W. Johnson of Hayward, E. C. Larson of San Francisco, H. A. Olson of Campbell, Robert Powell of Carmichael, and W. J. Thompson of San Francisco.

FRANK S. MILLER RETIRES FROM SISALKRAFT

After 28 years with American Sisalkraft Corp., Frank S. Miller, Southern California Manager, retired early in January. Miller has spent his entire career in the California-Arizona building and industrial markets handling the sale of Sisalkraft papers and plastics.

As the pioneer employee of the firm in the Southwest, he has seen the company grow from one representative to thirteen, and a new mill installed at Tracy, California, to service the Western states.

GUIDE FOR CABINET AND FIXTURE WORK DISTRIBUTED

A Specifications Guide for Cabinet and Fixture Work is being distributed to California architects by the Cabinet & Fixture Manufacturers Guild, a California association of leading cabinetwork manufacturers.

The 30-page guide was written to answer requests from many architects for a standard cabinet-work section which would clearly define the fabrication, finishing and installation practices followed by the industry. The Guild reports the guide was developed in cooperation with technical consultants of the varied sub-trades involved.

In addition to the bound set, the presentation includes a duplicate set printed on vellum so that the architect can make his own work copies.

BENJAMIN H. SPURLOCK, JR. UNIVERSITY OF COLORADO AWARDED HIGH HONOR

The grade of Fellow has been conferred on Benjamin H. Spurlock, Jr., professor of Mechanical Engineering at the University of Colorado, and Director of the University graduate studies, Department of Mechanical Engineering since 1946, by the Council of the American Society of Heating and Air-Conditioning Engineers whose general headquarters are in New York City.

Born in Lithonia, Ga., he was graduated from Georgia Institute of Technology in 1938 with a B.S. degree in engineering

MATTOCK CONSTRUCTION COMPANY

★

BUILDERS

★

220 CLARA STREET
SAN FRANCISCO

MacDONALD YOUNG & NELSON, INC.

General Contractors

8907 Railroad Avenue

Oakland, Calif.

LOckhaven 9-4433

DINWIDDIE CONSTRUCTION COMPANY

•

BUILDERS

•

CROCKER BUILDING
SAN FRANCISCO

ABBOT A. HANKS, INC.
Engineers & Chemists

INSPECTING — TESTING — CONSULTING
CONCRETE • STEEL • MATERIALS
CHEMICAL AND TESTING LABORATORIES
• RESEARCH AND INVESTIGATION •

TESTS OF STRUCTURAL MATERIALS
DESIGN OF CONCRETE MIXES
SHOP AND ERECTION INSPECTION OF STRUCTURES AND EQUIPMENT
INVESTIGATION OF STRUCTURES AND MATERIALS
TESTS AND INVESTIGATION OF FOUNDATION SOILS
FIRE RESISTANCE AND INSULATION TESTS

1300 Sansome Street, San Francisco
Telephone EX 7-2464

Subscribe Now —

ARCHITECT and ENGINEER

$3.00 Per Year

ROBERT W. HUNT CO.

ENGINEERS

INSPECTING TESTING

STRUCTURAL MATERIALS
CONCRETE MIX DESIGN
CHEMICAL ANALYSIS
EQUIPMENT

PRINCIPAL CITIES
UNITED STATES • EUROPE
SAN FRANCISCO LOS ANGELES
PORTLAND SEATTLE

MULLEN MFG. COMPANY

BANK, STORE AND OFFICE FIXTURES—CABINET WORK OF GUARANTEED QUALITY CHURCH SEATING

Office and Factory
60-80 RAUSCH ST., Bet. 7th and 8th Sts.
San Francisco
Telephone UNderhill 1-5815

HERRICK IRON WORKS

STRUCTURAL STEEL
REINFORCING STEEL
PRISON EQUIPMENT
PRELOAD PRESTRESSING

BOX 3007
HAYWARD, CALIF.
Phone LU 1-4451

KOLORBLEN
Concrete Color Hardener
COLOR WAXES
SEALER—STAINS
Conrad Souig Co.
Distributors—Contractors Concrete Specialties
875 BRYANT STREET
San Francisco - HEmlock 1-1345

and in 1939 he received his M.S. degree from Massachusetts Institute of Technology continuing his studies the following year at the University of California. In 1940 he served as instructor at the University of Colorado receiving an appointment as assistant professor two years later.

In 1955 Professor Spurlock was the recipient of a Fulbright grant and he was invited to lecture and serve as a consultant to the College of Engineering in Baghdad, Iraq.

Besides his duties at the University, Professor Spurlock has served as a consultant to the City of Denver and has been chairman of the steam heating division of the Denver Board of Examiners, since its beginning in 1952.

F. M. (Tom) HUGHES ELECTED OFFICER OF HARDWOOD ASSOCIATION

F. M. "Tom" Hughes, general manager of Forest Fiber Products Co., Forest Grove, Oregon, has been elected Vice-President of the National Hardboard Association, and in addition to his functions as Vice-President for the coming year, will remain as one of the Association's eight directors.

The Hardboard Association, composed of all leading hardboard producers in the United States, was formed six years ago to establish uniform technical standards for the industry and create a public awareness of all types of hardboard on a promotional level.

DR. DONALD G. WILSON APPOINTED GENERAL MANAGER

Dr. Donald G. Wilson has been appointed General Manager of Stromberg-Carlson, San Diego, according to an announcement by George A. Peck, Vice-President and General Manager of Stromberg-Carlson's Electronics Division, and Dr. Royal Weller, Vice-President in charge of Engineering.

Dr. Wilson will leave his present duties as Associate Director of Research and Advanced Devolpment to head the San Diego facility, and in his new position will succeed Harold P. Field, who recently was named Director of Marketing of the Electronics Division.

Joining Stromberg-Carlson, a division of General Dynamics Corporation, in 1955 as Associate Director of Research and Advanced Development, Dr. Wilson is a native of Bridgeport, Conn., and a graduate of Rensselaer Polytechnic Institute. He later attended Harvard University where he earned an M.S. degree in Communication, M.E.S. and Ph.D. degrees in Applied Physics.

Dr. Wilson is a Fellow of the American Association for the Advancement of Science, and the National Society of Professional Engineers.

NATIONAL COUNCIL ARCHITECTURAL REGISTRATION

The National Council of Architectural Registration Boards has announced the opening of new offices at 418-24 Commerce Exchange Building in Oklahoma City, Oklahoma, according to Joe E. Smay, Executive Director.

Offices of the organization were previously located in Cbarlton, Iowa, since 1940; and prior to that were located in Chicago.

Index to Advertisers

ARCHITECTS Reports ... 46
BILCO Co. ... 30
BUILDERS Hardware Co. 19
CALAVERAS Cement ... 46
CLASSIFIED Advertising 38
COOPMAN Electric Co. 17
DINWIDDIE Construction Company ... Back Cover & 47
FORNI, Inc., George ... 22
FORDERER Cornice Works ... 32
GLADDING, McBean & Company. ... *
GREENBERG'S, M., Sons.. ... *
HAAS & Haynie Const. Co. 33
HANKS, Abbot A., Inc. ... 47
HAWS Drinking Faucet Co. ... 31
HERMANN Safe Co., The ... 33
HERRICK Iron Works ... 48
HOGAN Lumber Co., Art 18
HUNDLEY Hardware Co.; E. M. 19
HUNT, Robert W., Company 48
JORGENSEN Masonry, Inc. 22
JOSAM Pacific Co. ... *
JUDSON Pacific-Murphy Corp. 33
KAWNEER Co. ... 15
KRAFTILE Company ... *
LABORATORY Furniture Co. 21
LANGEBERG & Son; Robert. 15
LeROY Construction Services. ... 34
MARINE Co., J. D. ... 24
MacDONALD, Young & Nelson, Inc. ... 47
MALLOT & Peterson ... 21
MARELICH Mfg. Co., Inc. ... 17
MATTOCK Construction Co. ... 47
MICHEL & Pfeffer Iron Works, Inc. ... Inside Front Cover
MOULIN Studios ... 30
MULLEN Mfg. Co. ... 48
NETTLES & Co., Inc., J. B. ... 17
PARAMOUNT Venetian Blind Mfg. Co. ... 13
PACIFIC Cement & Aggregates, Inc. 29
PACIFIC Iron & Steel Corp. ... 2
PACIFIC Manufacturing Co. ... 34
PITTSBURGH Testing Laboratory ... 18 & 44
PLASTERING Bureaus ... 44
REED & Co.; George W. ... 24
REMILLARD-Dandini Co. ... 43
REPUBLIC Steel Corporation ... 34
RIVIERA Hotel ... 45
SCOTT Company ... 1 & 43
SCOTT-Buttner Electric Co. ... 23
SHADES, Inc. ... 43
SIMONDS Machinery Co. ... 33
SOVIG, Conrad, Co. ... 48
STEEL Form Contracting Co. ... 19
STAR Iron Works ... 24
STROMBERG-Carlson Co. ... 44
SUTTON & Frost Electric Co. ... 13
TANCREDY, Inc.; Joseph L. ... 15
TOLAND & Son; C. E. ... 19
U. S. Savings Bonds ... Inside Back Cover
VERMONT Marble Co. ... 34
WESTERN Structural Tile Institute. ... *
ZELINSKY, D., & Sons. ... 23

*Indicates Alternate Months

ARCHITECT
ND
ENGINEER

PAUL MASSON'S Champagne Cellars at Saratoga, California

ART DEPT.
APR 4 1959
SAN FRANCISCO
PUBLIC LIBRARY

OLLES, ARCHITECT

WILLIAMS & BURROWS, General Contractors

PRIL **1959**

STANFORD RESEARCH INSTITUTE, Menlo Park
Stanton & Stockwell, *Architects*

ALUMINUM SLIDING WINDOWS

METAL WINDOWS
ARCHITECTURAL &
MISCELLANEOUS
METAL WORK

PENINSULA HOSPITAL
Stone, Mulloy, Marraccini & Patterson, *Architects*
Williams & Burrows, Inc.,
General Contractors for both buildings

ARISTON
Metal Products

Michel & Pfeffer Iron Works, Inc.

212 Shaw Road
South San Francisco, California
PLaza 5-8983

Since 1912 Fabricators of Architectural Metal • Metal Windows and Doors • Steel Buildings

Vol. 217 No. 1

EDWIN H. WILDER
Editor

CONTRIBUTING EDITORS:

Education
SIDNEY W. LITTLE, Dean, College of Fine Arts and Department of Architecture, University of Arizona, Tucson, Arizona.

City Planning
CORWIN R. MOCINE, City Planning Engineer, Oakland, California

Urban Planning and Shopping Centers
FRANK EMERY COX, Sales Research & Business Development Analyst, Berkeley, California

Realty Development
ROY P. DRACHMAN, Subdivider and Realty Developer, Tucson, Arizona

School Planning
DR. J. D. McCONNEL, Stanford School Planning Dept., Palo Alto, California

Residential Planning
JEDD JONES, Architect, Boise, Idaho

General Architecture
ROBERT FIELD, Architect, Los Angeles, California

Engineering
JOHN A. BLUME, Consulting and Structural Engineer, San Francisco, California

Advertising
WILLIAM A. ULLNER, Manager

FRED JONES
Special Advertising

★

COVER PICTURE

PAUL MASSON'S
CHAMPAGNE
CELLARS
Saratoga, California

One of many projects of contemporary construction by Williams and Burrows, General Contractors with headquarters in Belmont, California. See page 10 for more details of this and other projects.

ARCHITECTS' REPORTS—
Published Daily
Archie MacCorkindale, Manager
Telephone DOuglas 2-8311

ARCHITECT AND ENGINEER

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.; and ART INDEX

Contents for

APRIL

EDITORIAL NOTES 2
NEWS AND COMMENT ON ART 4
INDUSTRIAL FACILITIES REMODELED for Kawneer's West Coast Plant . 6
WILLIAMS AND BURROWS, General Contractors—
Contemporary Construction 8
PENINSULA HOSPITAL—Burlingame, California
STONE, MARRACCINI & PATERSON, Architects
(Successors to STONE, MULLOY, MARRACCINI & PATERSON, Architects)
SMITH & MOOREHEAD, Structural Engineers
STANFORD RESEARCH INSTITUTE—Menlo Park, California
J. E. STANTON and WILLIAM F. STOCKWELL, Architects
BRANDOW & JOHNSTON, Engineers
SANTA CLARA COUNTY HOSPITAL—San Jose, California
STONE, MARRACCINI & PATERSON, Architects
GEORGE WASHINGTON, Structural Engineer
EITEL-McCULLOUGH, INC.—San Carlos, California
VINCENT G. RANEY, Architect
HALL, PREGNOFF & MATHEU, Structural Engineers
PHYSICS LECTURE HALL, STANFORD UNIVERSITY—Palo Alto, California
GARDNER A. DAILEY, Architect
H. J. BRUNNIER, Structural Engineer
FLORENCE MOORE HALL, STANFORD UNIVERSITY—Palo Alto, California
MILTON T. PFLUEGER, Architect
HALL, PREGNOFF & MATHEU, Structural Engineers
CONTRA COSTA SEWAGE PLANT ADDITION
BROWN & CALDWELL, Engineers
RESIDENCE HALL, SANTA BARBARA CAMPUS, UNIVERSITY OF CALIFORNIA
CHARLES LUCKMAN ASSOCIATES, Architects and Engineers
PAUL MASSON'S WINERY—Saratoga, California
JOHN S. BOLLES, Architect
PARKE-DAVIS OFFICES AND WAREHOUSE
MINORU YAMASAKI AND ASSOCIATES, Architects
KNORR-ELLIOTT & ASSOCIATES, Resident Architect
AMMANN & WHITNEY, Structural Engineers
AMERICAN INSTITUTE OF ARCHITECTS—Chapter Activities . . . 26
WITH THE ENGINEERS—News and Notes 28
WHAT'S NEW IN PLASTERING 32
By ROBERT B. SCOTT, Lathing and Plastering Institute of Northern California
BOOK REVIEWS, Pamphlets and Catalogues 33
ESTIMATOR'S GUIDE, Building and Construction Materials 35
BUILDING TRADES WAGE SCALES, Northern, Central & Southern California 37
CLASSIFIED ADVERTISING 38
ESTIMATOR'S DIRECTORY, Building and Construction Materials . . . 39
CONSTRUCTION CONTRACTS AWARDED and Miscellaneous Data . . 41
IN THE NEWS 44
INDEX TO ADVERTISERS 48

THE OLDEST PROFESSIONAL MONTHLY BUSINESS MAGAZINE OF THE ELEVEN WESTERN STATES

ARCHITECT AND ENGINEER (Established 1905) is published on the 15th of the month by The Architect and Engineer, Inc., 68 Post St., San Francisco 4; Telephone EXbrook 2-7182. President, K. P. Kierulff; Vice-President and Manager, L. B. Penhorwood; Treasurer, E. N. Kierulff. — Los Angeles Office: Wentworth F. Green, 439 So. Western Ave., Telephone DUnkirk 7-8135 — Entered as second class matter, November 2, 1905, at the Post Office in San Francisco, California, under the Act of March 3, 1879. Subscriptions: United States and Pan America, $3.00 a year; $5.00 two years; foreign countries $5.00 a year; single copy 50c.

. EDITORIAL NOTES .

IT'S YOUR MOVE

The "big" spenders representing you in the Congress in Washington, have begun their spree in the new Congress by setting out to seduce your city with too much "urban renewal" and "public housing," money.

The several hundred million dollars of money is to be obtained by snipping a hole in President Eisenhower's balanced budget and taking out the money in an action which amounts to pick-pocket inflation.

The community that is willing to let the federal government "help" take care of its streets, sidewalks, sewers and slum problems should profit from the sad experience of federal government "help" in education where in the state of California alone the taxpayer is charged and pays $78,322,000 in federal taxes to educate the children in such states as Mississippi, Alabama and even Maine.

There is no such thing as federal government help, but there is such a thing as business, social and political leaders of a community getting together and working out a problem for solving their urban problems in their own way and with their own resources. Local government, being a partner in such a program, is improved. Competing, overlapping local jurisdictions are abolished and an area-wide government developed with a modern fiscal and administrative structure. This is the kind of a community you want and can afford.

A number of members of Congress are sending out questionnaires to the voters of their districts requesting an indication of "community" thinking relative to a number of "tax increasing" and "government spending" bills pending in Congress. Here is your opportunity to "instruct" your representative in the U.S. Senate and House of Representatives in Washington, your wishes in the matter of taxation and spending. Don't let the opportunity slip away.

* * *

The Federal government now costs taxpayers $214-million each day.

* * *

THE SKI-BLOC

The State of California, in partnership with the Federal government, is spending some $15-million dollars in the Squaw Valley-Lake Tahoe site of the 1960 Winter Olympic Games.

Any critic of such an outlay of funds might first take a look at the size of this nation's "ski bloc". Best estimates place it at close to six million Americans of all ages. This winter, with snow conditions good to excellent in most ski areas, both private and public operators of slopes and ski resort layouts are finding their investments paying off.

In Vermont and New Hampshire, for example, resort owners report business 20 to 40 per cent ahead of any previous year, with as many as 100,000 skiers schussing down the Big Four slopes any week-end. Michigan's Tourist Council figures 150,000 will spend $14-million dollars on the state's ski runs this winter, Colorado expects more than 200,000 to spend $4.5-million dollars at its winter sport areas.

Profitable snows in California's high Sierras mean half a million Californian and nearby skiers will spend $70-million dollars in a winter.

Alert winter-resort owners are now wooing the more lucrative family trade with gentler trails, learn-to-ski week-ends, gondola lifts, and family over-night accommodations.

With the staging of the 1960 Winter Olympic Games at Squaw Valley a new era of expanded interest and activity will hit the ski bloc with resultant benefit to everyone in and allied to the winter sports industry.

* * *

Recently 70,000 people spent more than $5,300,000 in entertainment at two New York area race tracks—And that ain't hay.

* * *

HOMES WILL COST MORE

If you are in the market for a home, either new or lived in, the chances are you will find it more difficult this year to get the home you want at the price you expect to pay.

Governmental agencies, departments, and private commercial services that gather statistics on housing estimate that new-home costs will be up from $200.00 to $600.00, and building lots, on which to put the home of your dreams, will cost more too.

Insurance and mortgage rates are likely to go up again this year, and in keeping with the current policy of cities and towns to raise taxes, every indication points to increased real estate taxes. Charges for services such as sewage disposal, trash collection and water are on the uptrend, and most homeowners will be hit with increased costs whether the services are provided by the municipality of whether they're contracted for directly by the resident.

Increased rate of compensation in the construction industry trades will up the cost of repairs—painters, plumbers, carpenters and even the TV repairman and washing machine fixer will be seeking more pay per job.

With the trend UP, about the only way you can expect to save money is by obtaining that contemplated home as quickly as possible, or by having the old one renovated without delay.

PLUMBING
HEATING
AIR CONDITIONING

STANFORD RESEARCH INSTITUTE

Ravenswood Avenue • Menlo Park, California

KLEINEN CO., INC.

1414 Wallace Street • San Francisco

Phone: ATwater 2-8390

ARCHITECTS: J. E. Stanton and William F. Stockwell
Walter Baumberger, Architects Representative

MECHANICAL ENGINEER: Ralph E. Phillips

GENERAL CONTRACTORS: Williams & Burrows, Inc.

NEWS and COMMENT ON ART

OILS BY DAVID PARK SHOWN AT MUSEUM

David Park, widely known Bay Area artist and Assistant Professor in the Art Department, University of California, will exhibit a selection of his recent oils at the M. H. deYoung Memorial Museum in San Francisco, through April 26.

In 1951, a time when abstract expressionism was steadily gaining wide acceptance, David Park who had been active in the movement, exhibited a canvas showing a recognizable subject — boys on bicycles. And subsequently with his symbolic conception of the human figure he has influenced a generation of San Francisco painters according to a recent article in the magazine "Art in America."

Paul Mills, Director of the Oakland Art Museum, in describing the artist's style of painting in a brochure for an exhibition held in that museum in 1957 entitled "Contemporary Bay Area Figurative Painting," writes: "His figures exist in an ambiguous world which is in tension between the everyday world he sees around him, the idealized world of classic figure painting, and the surrealist world of automatism and subconscious determination. However, his figures seem real without becoming too particularized. They seem universal without becoming hollow generalizations, and psychologically compelling without becoming theatrical. The tension, the balance is never at quite the same point, and figurativeness never reaches the level where paint loses any of its freedom."

David Park was born in Boston, Massachusetts in 1911. He became interested in painting in early childhood and upon moving to Los Angeles in 1928 he studied for a year at Otis Art Institute.

In 1929 he came to San Francisco, married the following year, and has made his home in Berkeley ever since except for a five year period between 1936 and 1941 during which he headed the art department of the Winsor School in Boston. From 1931 to 1935 he taught in East Bay private schools and gave courses at the University of California Extension Division and was at the same time active on the W.P.A. art project. From 1943 to 1952 he taught at the California School of Fine Arts and since 1955 has held his present post with the University of California.

WALL TAPESTRY EXHIBITION BY MARK ADAMS AT deYOUNG

Mark Adams, the noted San Francisco designer and painter, will present a one-man showing of his recent wall tapestries at the M. H. deYoung Memorial Museum March 29 through April 30.

A leader in the movement to coordinate art an architecture in the Bay Area, Mark Adams ha achieved national recognition for his work with arch tects in making large scale tapestries an integral par of public and commercial buildings.

He first attracted nationwide attention three year ago with his eight by eleven foot tapestry "The Phoe nix and the Golden Gate," whose theme was th resurgence of San Francisco after the fire of 190 Designed for the reading room of the Marina Branc of the San Francisco Public Library it won the singl big prize of $2,000 in the 1956 Civic Art Festiva sponsored by the Art Commission inaugurating the program for the creation of works of art to be place in the city's public buildings. The tapestry has bee lent for this exhibition by the library.

Mark Adams was born in Fort Plain, New York i 1925 and studied art at Syracuse University and at th Hans Hofmann School of Fine Arts in New York City He has recently returned to the Bay Area after nearl a year in France spent working with the Frenc painter-designer, Jean Lurcat in St. Cere and attend ing weaving and designing classes at the Ecole Nation ale in Aubusson.

In 1952 he was represented in the deYoung Mu seum's important embroidered tapestry representin the Queen of Heaven which was described by Alfre Frankenstein as one of the most impressive works o that exhibition. This tapestry was purchased in 195 by the Dallas Museum of Fine Arts.

M. H. deYOUNG MEMORIAL MUSEUM

The M H. deYoung Memorial Museum, Golde Gate Park, San Francisco, under the direction of Wal ter Heil, is offering the following special exhibition and events for April:

EXHIBITIONS: "Contemporary Prints from Grea Britain"; "Renaissance Jewels" from the Martin J Desmoni Collection, an exhibition of one hundre jewels representing the work of Italian, German French, Spanish, Dutch and English goldsmiths Paintings by David Park; Paintings by Theodor Polos; Pastels by Helen Salz; and Tapestries by Mar Adams.

SPECIAL EVENTS: A special illustrated lectur series will feature "The Post Impressionists—Contem poraries of Van Gogh" by Charles Lindstrom; an "The Landscape Architecture of Ancient Egypt" b Bernard Bothmer, Curator, Department of Ancien Art, The Brooklyn Institute of Arts and Sciences, The Brooklyn Museum.

Classes in Art Enjoyment, Exercises in Oil Painting, Seminars in the History of Art are available for adults, and Picture Making, Art and Nature and Art Club activities are available for children.

The Museum is open daily.

OAKLAND ART MUSEUM

The Oakland Art Museum, 1000 Fallon Street, under the direction of Paul Mills, Curator, is presenting a series of exhibitions this spring beginning with the premiere museum showing of the art collection of Billy Pearson, internationally celebrated first as a jockey, then as a quiz expert and television personality and now as one of America's most popular public figures. The Pearson collection is particularly noted for its fine pottery and sculpture from ancient Mexico, its African sculpture and its Byzantine icons.

Special exhibitions include "Masterpieces from the Permanent Collection," comprising selections of old and modern masters of California as well as certain other American and European masters. Wednesday night art programs; motion picture films, guided tours of the Museum and an Art Rental Service are of special interest to the public.

The Museum is open daily.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, under the direction of Dr. Grace L. McCann Morley, regularly exhibits a number of special exhibitions each month, as well as presenting a variety of special events of interest to the public.

Special events include lecture tours of the museum, concerts, and events for the children.

The Museum is open daily.

CALIFORNIA PALACE OF THE LEGION OF HONOR

The California Palace of the Legion of Honor, Lincoln Park, San Francisco, under the direction of Thomas Carr Howe, Jr., offers a variety of exhibitions and events each month.

In addition to numerous special art exhibitions, special events are presented featuring an organ recital each Saturday and Sunday afternoon at 3 o'clock by Mr. Richard Purvis and Mr. Ludwig Altman. Educational activities include art classes for children and juniors.

The Museum is open daily.

ARCHITECTURAL GALLERY

The Los Angeles Architectural Gallery, Building Center, 7933 West Third Street, is featuring a special exhibit of the work of members of the Orange County Chapter of The American Institute of Architects.

PHOTOGRAPH EXHIBITION OF BERNARD RALPH MAYBECK

The College of Architecture, University of California, in cooperation with the California Palace of the Legion of Honor and the California Redwood Association, are sponsoring a photographic exhibition of the architectural genius of Bernard Ralph Maybeck at the California Palace of the Legion of Honor, Lincoln Park, San Francisco.

PASTELS OF HELEN SALZ ON EXHIBIT AT deYOUNG

Pastels by the well known San Francisco artist Helen Salz will be shown at the M H deYoung Memorial Museum, March 26 through April 26. Lauded for her skilled and imaginative use of the medium, she stresses positive line and strong delineation of form with rich and vibrant colors reminiscent of the French Impressionists.

In this exhibition will be shown a selection of her recent portraits, flower studies and landscapes including her impressions of Golden Gate Park and the Hawaiian Islands.

In portraits combining likeness, spirit and personality she aims to capture "the inner unique quality that distinguishes each person from everyone else in the world—that special aura related to the form, color and pattern inevitably surrounding each living soul." The exhibition includes portraits of Theodore Polos, Harriet Levy, and Mrs. P. W. Wood.

Helen Salz has studied with such men as Gottardo Piazzoni, Robert Henri and Rockwell Kent. She has had seven one-man shows including exhibitions at the Marie Sterner Gallery in New York City; the San Francisco Museum, the California Palace of the Legion of Honor and the City of Paris Rotunda Gallery in San Francisco, the Carmel Art Gallery, and the Santa Barbara Museum. She has also exhibited at the Golden Gate International Exposition and the Decorators Club Gallery in New York.

Her works are owned by the San Francisco Museum, the Santa Barbara Museum and by private collectors. She is a member of the San Francisco Art Association and the Artists Equity Association.

WORK OF THEODORE POLOS SHOWING AT MUSEUM

The M. H deYoung Memorial Museum will present an exhibition of 20 oils by the nationally known Bay Area artist Theodore Polos March 26 through April 26.

Critics in commenting on his earlier works have described him as a somber painter with a restless and stormy imagination whose themes and treatment are consistently on the tragic side. This exhibition of his later paintings consisting mostly of romantic interpretations of the California landscape is his first one-man show in recent years.

AIR VIEW of new Kawneer Company factory and offices.

INDUSTRIAL FACILITIES

REMODELING FOR KAWNEER

WEST COAST PLANT

In keeping with the explosive business growth of the West Coast and the Hawaiian Islands, Kawneer Company, manufacturers of architectural metal products, has moved from Berkeley to larger quarters in Richmond. Some 25 acres and buildings, formerly occupied by the Rheem Manufacturing Company as an ordinance set-up, have been taken over, revamped and enlarged, giving Kawneer one of the largest and best equipped plants on the Pacific Coast.

After 45 years of operation in Berkeley, the company chose the Richmond site as the answer to its constantly increasing needs for expansion. There are 250,000 square feet of buildings with storage yards, rail trackage and parking facilities. A foundry area

ENTRANCE

Details of modern entrance to office portion of the Richmand, California factory and offices.

will be converted by Kawneer into a casting operation when an extrusion mill is installed. New 30-foot alumiliting tanks have been added to meet the increasing size of aluminum construction projects. The necessity for such large tanks is apparent in connection with the contract to fabricate the curtain walls for the 28 story Kaiser Center in Oakland. Other modern equipment includes automatic polishing machines which will not only speed up the finishing of aluminum products but will add to the efficiency and quality of the material.

While the home office of the Kawneer Company is in Niles, Michigan, the West Coast operations have always been centered in the San Francisco Bay Area and this policy will be continued, supplemented by a broad coverage of the entire Pacific Coast and the Hawaiian Islands. In this respect the company has recently completed arrangements with Frank E. Cox, who has been in charge of various phases of Kawneer sales and promotion for a number of years, for the intensification of activities in the islands.

At present Kawneer maintains a warehouse and light fabricating plant in Los Angeles and has sales offices there and in Phoenix, Salt Lake City, Sacramento, Portland, Seattle and Spokane. Kawneer also operates a large plant at Toronto, Canada, a subsidiary in Mexico City and an affiliate corporation in Sydney, Australia.

For a long time Kawneer has been recognized for its leadership in the manufacture of architectural metal products, particularly in the production of store front materials. Of late it has been featuring aluminum curtain walls which have been installed on such notable structures as the Equitable Life Assurance Building, Fireman's Fund, Pacific Mutual Life Insurance, and many other San Francisco structures, also the First Western Bank, Oakland, the two latest Tishman Buildings and the Superior Oil Building, Los Angeles.

Modern equipment is used.

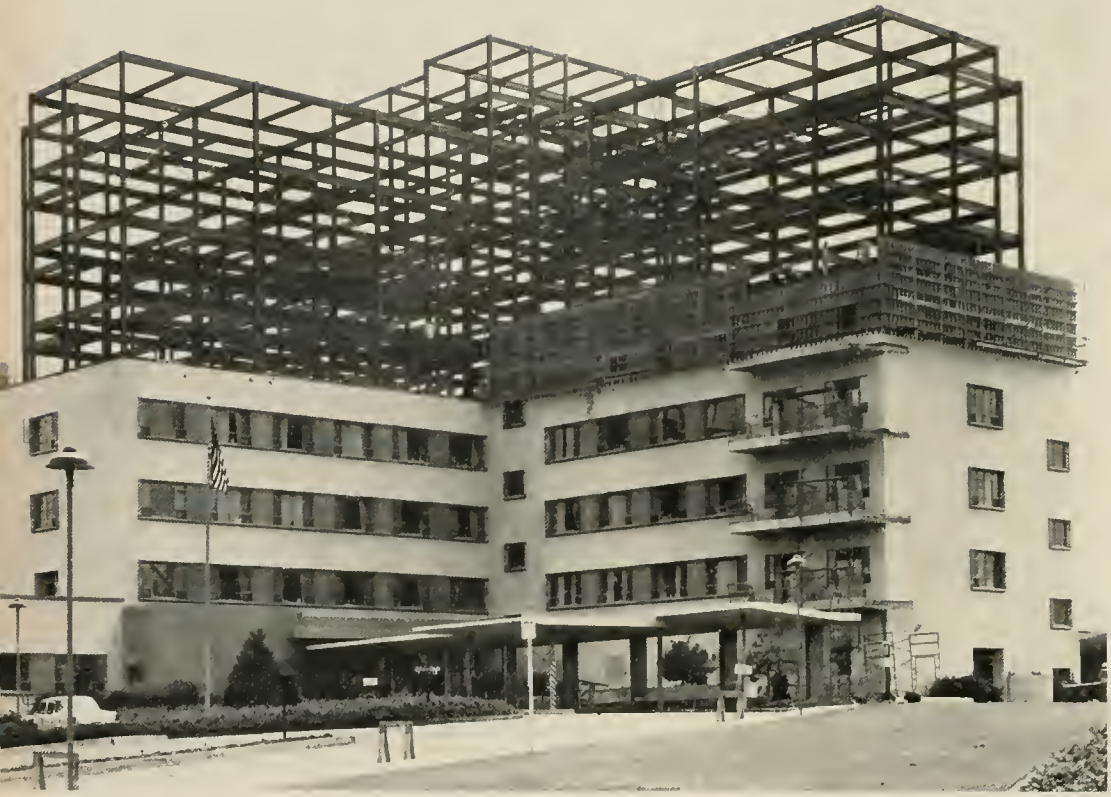
On February 24 the company held an "open house", entertaining executives identified with the building industry, city and county officials, and the press. Present also to give the affair official recognition was Kawneer's president from the Niles office, Laurence J. Plym.

Otis H. Winfield is vice president and general manager of the Pacific Coast operations.

PLANT

Portion of fabrication plant.

Showing spacious areas for monufacturing and assembly.



PENINSULA HOSPITAL expansion, Burlingame, Califarnia. *Photo courtesy Bethlehem Pacific Company.*

CONTEMPORARY CONSTRUCTION

WILLIAMS and BURROWS

GENERAL CONTRACTORS

Today a construction company must be ready to meet diverse community needs. Nearly all community activities must be housed including factories, homes schools, hospitals, amusements and public utilities. Contemporary architectural designs demand unusual skills in engineering and construction.

Williams and Burrows, Inc., general contractors of Belmont, California, has had years of experience in developing skills and the necessary mobility to meet contemporary construction demands. Williams and Burrows has taken the lead in new techniques and programs and has furnished leadership to industry and community organizations. For example, it pioneered in the development of pre-cast concrete construction, commonly called "tilt-up". This technique is one of the outstanding construction advances in recent years. The Williams and Burrows firm is composed of experienced specialists in all phases of construction work. Many of the engineers, estimators, project engineers, superintendents, and foremen have been developd within the organization. A well equipped and staffed warehouse, yard, and repair shop are maintained. The company has, or is in a position to secure, the equipment required for any operation.

Company personnel has continuously served on committees and as officers of local, state, and national industrial organizations of various kinds. They are conscious of their obligation to assist in the orderly

development of our community and our industry. Management interest in safety and accident prevention has resulted in several progressive programs which account for an outstanding safety record.

A look at a few examples of recent projects will reveal the varied and complete jobs done by Williams and Burrows.

In the educational field Williams and Burrows has constructed several buildings on the Santa Barbara Campus of the University of California at Goleta. The completed structures include the Science Building (the late Winsor Soule and John Frederick Murphy, Architects), the Library (Chester L. Carloja, Architect), temporary dormitories under the direction of the University Architects and Engineers, two womens' domitories, and the Music Building (Pereira and Luckman, Architcets); these being joint ventures with Carl N. Swenson Co., Inc. Being completed this year are the Arts Building, Santa Cruz Hall, and Anacapa Hall, men's and women's domitories, and the second Dining Commons (Charles Luckman Associates, Architects).

All buildings are part of a master plan adapting Santa Barabara's Mediterranean architecture to the contemporary scene, limited to two stories, with special emphasis on deep overhangs an the roofs, colonnades to break the sea breezes, and patios for study and recreation. Roofs are of flat interlocked clay tile. The walls are concrete spandrels and a specially designed volcanic ash block forming a design. The block is cinnamon color and waterproofed with a silicone treatment, then sandblasted for a textured finish requiring no painting or upkeep.

Four of the buildings constructed have received awards for Civic or Commercial Architecture from the Community Arts Association of Santa Barbara: first

PENINSULA HOSPITAL, Burlingame, completes $4,000,000 expansion program. Original structure designed for addition of four new floors without disturbing occupants of building. (Photo courtesy Stone, Marraccini and Patersan, successors to Stone, Mulloy, Marraccini & Paterson, Architects. Smith & Moorehead, Structural Engineers.)

RIGHT WING

of the new hospital addition. A "solarium" has been designed for the roof.

Dwain Faubion, Photograph

award in 1953 for the Science Building, honorable mention for Santa Rosa Hall in 1955, and second award for the music building in 1956.

Another project related to the field of education is the Stanford Research Institute Building completed in August, 1958. Stanton and Stockwell, Architects of Los Angeles were represented at the site by Walter Baumberger. The basic design of the building is functional: a reinforced concrete frame with panels of special clay brick and covering 110,000 square feet. The brick building consists of five wings extending back from a central unit and encompassing two stories with concrete floors in chemistry laboratories, plaster walls, nonglare fluorescent lights, and over 500 sliding glass windows.

Stanford Research Institute, affiliated with Stanford University, was founded in 1946 as a non-profit organization. Three hundred of the SRI staff and administration will be housed in the new building and major portions of three of the four research units of the Institute: the Economics Research Division, several of

MAIN DESK and RECEPTION AREA

of the hospital, which serves the entire facilities of the hospital.

Fred English, Photograph

PENINSULA HOSPITAL, showing addition of new floors to existing building.

Fred English, Photograph

the chemistry laboratories of the Physical Sciences Division, and the Poulter Laboratories which specialize in research on problems of shock-wave and other high-energy phenomena. The remaining staff and facilities will continue in their present location at Stanford Village, formerly Dibble Hospital. The hospital was built by Williams and Burrows some 15 years ago; and Fred Carlson, who has been with the firm over 30 years, supervised the work on both Dibble Hospital and the new SRI building. The new two and a quarter million dollar Institute Building is the first phase of an extensive building program planned for the future.

The Central Contra Costa Sewage Disposal Plant was recently completed by Williams and Burrows. As the plant services the San Ramon and Walnut Creek

Steel stud erections on the 6th floor (left), and acoustic plaster being applied on the Main Corridar of the 5th Floar of the Peninsula Hospital.

Photographs courtesy Marconi Plastering Co., Inc.

LABORATORY

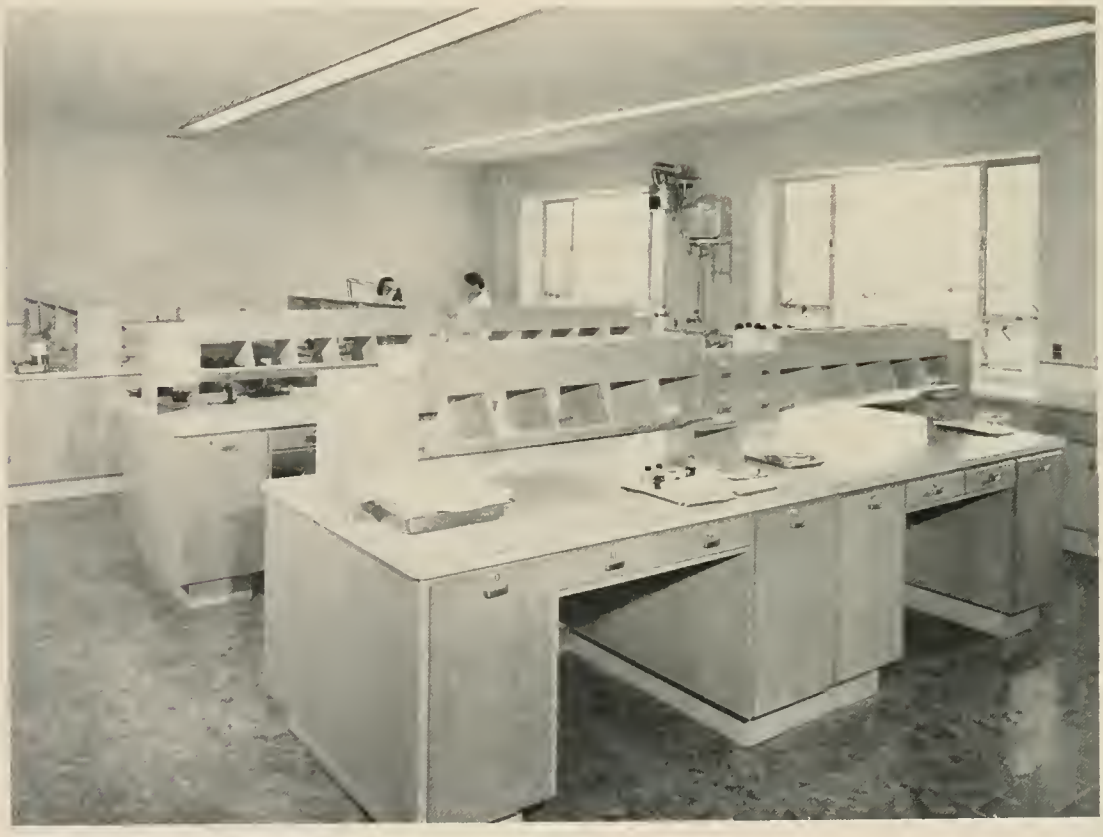
UNIT

Shawn at left is portian of one of the hospital's new, madern lobaratory units.

Photographs courtesy Royal Showcase Co.

Valleys it was necesary to keep the existing plant in operation during the construction of the new one. Three 10" vertical pumps and two 6" horizontal pumps were set to handle the influent in the old inlet works, which serve as foundation and lower floor of the new work shop. Two 16" vertical low head pumps and an ingenious bar screen were set up at the "by-pass manhole" to handle the flood waters, which were

BELOW is shown the new Central Sterile Room.



utilized during the rains of January, 1958.

Less than a quarter of the Central Contra Costa Sewage Plant can be seen from the highway. The equipment, two 72" influent and one 78" effluent pipelines, is all below ground to a maximum depth of 30 feet. The sedimentation tanks show about one fourth of their depth, and the inlet works show only a sidewalk. Ground water was approximately 12 feet below the surface. Excavation for the pipe lines and structures was worked successfully "in the dry" by sectionalized pumping. Pumping started 10 to 15 days prior to work in the section.

Excavation for the new inlet works was a problem as it was adjacent to the existing pump house and well wall, which had to be "gutted" and dewatered. It was imperative to keep the water table down as both structures were deep and with both of the long sides of the pump house excavated there would be a tendency for it to "float". The building will be held down from now on by the installation of the new pumping equipment consisting of two 36" pumps, an engine floor with two engines between the old pump floor and ground floor; and a 9-foot concrete floor so there will be no floating problem there.

RECEPTIONIST DESK area on first floor, adjacent to laboratories, X-ray and therapy.

Photograph courtesy Royal Showcase Co.

The 78" outfall line from the new sedimentation tanks forms an integral part of the dike which in turn makes the south bank of the oxidation ponds. First job in laying this 1200 feet of pipe was to widen the dike to crown line of the pipe with the most impervious

DOCTORS' LOUNGE

Located an the first floor.

Fred English, Photograph

STANFORD RESEARCH INSTITUTE

Menlo Park, California

J. E. Stontan and William F. Stackwell, Architects.

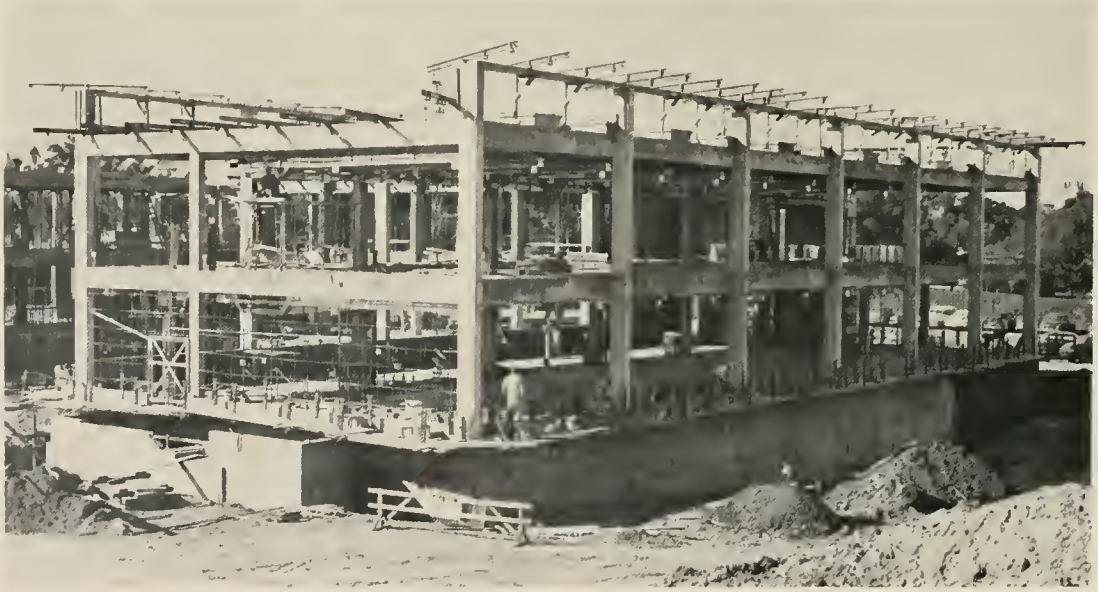
Brandow & Jahnston, Engineers.

Photo courtesy George W. Reed Company

compactable soil so as to block out infiltration and prevent dike failure as the flow line of pipe was a minimum of 5 feet below water level of oxidation ponds. Then excavation was made for the pipe. After the pipe was laid the dike was raised 7 feet. The east boundary dike was brought to level with the north dike. During the flood conditions of December, 1957, and January, 1958, there was at peak time only 8½" of free board. The lake adjacent to the plant formed by the flood extended for ¾ of a mile and had there been dike failure the plant would have been completely inundated. Particularly with water and sewage, many such problems develop when a plant is being added to and remodeled and at the same time being kept in operation.

Eitel-McCullough, Inc., manufacturers of electron

CONSTRUCTION DETAIL of building wing.

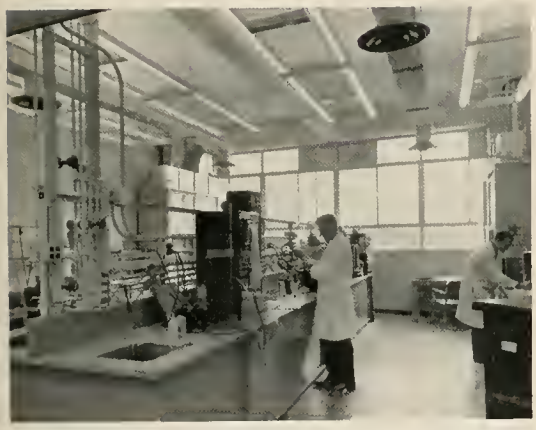


AIR VIEW

STANFORD RESEARCH INSTITUTE

Menlo Park, California

Photography courtesy Kiemen & Co.



In a typical new labaratary, chemists prepare a pesticide specimen far chramatagraphic analysis (left), and check a special instrument far impraving measurement techniques (right).

Photograph courtesy Unistrut

power tubes in San Carlos, California, has a new building of 150,000 square feet of plant and office space covering almost four acres with an additional four acres of driveway and parking space. The office area is two stories high, and the manufacturing section one story. The structural steel frame and tilt-up concrete walls rest on 1200 cement-capped piles driven to a depth of more than 35 feet. The exterior of the office is surfaced with a ceramic veneer of ¾" square tiles applied to the slab while being poured. Luminous ceilings and vertical window louvers provide light control. Unique features include space-saving rooftop utility and electrical distribution equipment and "unit-ized manufacturing areas, each with separate heating and ventilation provisions. There is a recreation yard for employees and one of the finest cafeterias in the west. Vincent G. Raney was the architect.

The new Paul Masson Winery, designed expressly

ALL BRICK USED IN THE NEW

Stanford Research Institute Building

STANTON AND STOCKWELL, *Architects*

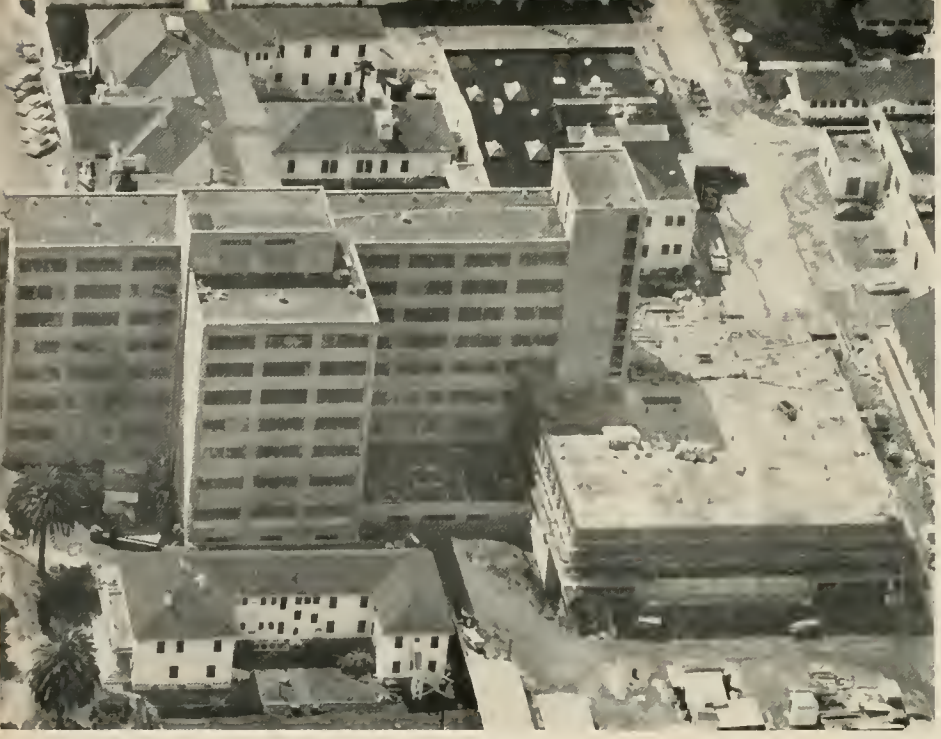
WILLIAMS & BURROWS, *General Cantractars*

L. P. McNEAR BRICK COMPANY

COMMON AND JUMBO BRICK

GLenwaad 4-6811

P. O. BOX 119 **SAN RAFAEL, CALIF.**



SANTA CLARA COUNTY HOSPITAL

New concrete addition to Santa Clara County Hospital at San Jose, California.

Stone, Marraccini & Patersan, Architects.

George Washington, Structural Engineer.

Par Photo Service

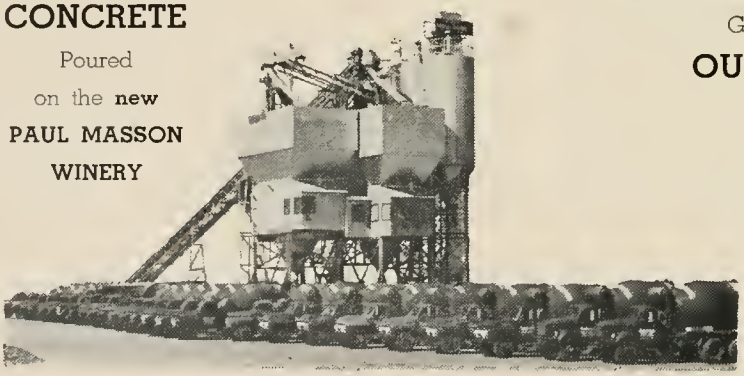
Automatic Tube System
installed in
Santa Clara Co. Hospital
by

GROVER ENGINEERS INC.

44 McLea Court **MA. 1-2668**
San Francisco

for the production of champagne, is now under construction at Saratoga, California, and will be completed by May, 1959. The 2½ million dollar buildings include a combination reception and wine-tasting hall and the Champagne Cellars where wines and champagne will be made and aged and brandies blended and bottled. The combination reception room and wine-tasting hall is a steel frame building with cement plaster and 11,100 square feet of space. The reception

6,000 yards
of
CONCRETE
Poured
on the **new**
PAUL MASSON
WINERY



IT IS A PLEASURE
TO CALL
WILLIAMS & BURROWS, INC.
General Contractors
OUR CUSTOMER.

• • •

ANDERSON MATERIALS, INC.
SUNNYVALE
PHONE: RE 6-5414

CARL E. ANDERSON CO.
Mountain View—YO 7-7296

EITEL-McCULLOUGH, INC. is another addition to the rapidly expanding industrial area south of San Francisco. Exterior of 2-story office is surfaced with ceramic veneer of 3/4" square tiles applied to the slab while being poured. (Vincent G. Raney, Architect. Hall, Pregnaff & Matheu, Structural Engineers.)

Fred English, Photograph

hall faces a 9000 square foot pool which has a 67-foot abstract fountain symbolizing the effervescence of champagne in its center. On the inner face of the entrance is a mosaic by Jose Moya del Pino depicting the history of wine and champagne making.

There is a bridge connecting the two buildings which can be used by visitors and executive personnel to tour the entire building without descending to or interfering with the wine-making process. The Champagne Cellars, where 100 regularly employed workers

IT HAS BEEN A
PLEASURE TO CALL
WILLIAM & BURROWS
OUR CUSTOMER
•
HUGH TAYLOR, INC.
Plumbing • Heating • Piping
OLympic 4-5012
3274 ETTIE STREET
OAKLAND 8, CALIFORNIA

Announcing
THE FORMATION OF THE
ASSOCIATED INSPECTORS and ELECTRONIC SPECIALISTS, INC.
FURNISHING QUALIFIED AND EXPERIENCED INSPECTORS FOR THE CONSTRUCTION INDUSTRY, THROUGH ARCHITECTS AND ENGINEERS.
ALSO
UNDER THE DIRECTION OF
V. A. ENDERSBY
Tests and Investigations of Foundation Soils
SLIDES and ALL SOIL PROBLEMS and CONDITIONS
5509 GROVE ST., OAKLAND 9, OL 3-4733

FINK and SCHINDLER SINCE '82
ALL CABINET WORK
FOR
PENINSULA HOSPITAL ADDITION
BY
FINK & SCHINDLER CO.
560 BRANNAN STREET
SAN FRANCISCO

WILLIAMS and BURROWS, Constructors . . .

PHYSICS LECTURE HALL

Completely modern design, compatible with surroundings, is the recently constructed Physics Lecture Hall at Stanford University, Palo Alto.

Gardner A. Dailey, Architect.

H. J. Brunnier, Structural Engineer.

Fred English, Photograph

THE NEW

PAUL MASSON

VINEYARDS

Saratoga, California

JOHN S. BOLLES, *Architect*

GURDON WOODS, *Sculptor*

WILLIAMS & BURROWS, *General Contractors*

ALUMINUM FOUNTAIN

Fabricated and erected by:

MAYTON ARCHITECTURAL FABRICATORS, INC.

Aluminum and Stainless Steel Specialists

1414 WALLACE ST. • SAN FRANCISCO, CALIF.

ATwater 2-4752

FLORENCE MOORE HALL

Stanford University Campus

Palo Alto, California

Fred English, Photograph

Milton T. Pflueger, Architect
Hall, Pregnoff & Matheu, Structural Engineers

will be, will have glue-laminated wood arches, concrete buttresses, wood roof deck, concrete tilt-up walls, concrete slab floors, and cover 121,600 square feet of space. Four million bottles of champagne and still wines can be processed and aged, and over one million bottles of brandy blended and bottled. John S. Bolles of San Francisco was the architect-engineer.

There is a critical shortage of hospital facilities in the Bay Area. The Santa Clara and Peninsula Hospitals are expanding their facilities to meet this need.

Reinforcing Steel

CONTRA COSTA
TREATMENT PLANT

furnished by

Gilmore-Skoubye

8275 SAN LEANDRO ST., OAKLAND 21

PHONE: NE 2-3173

It has been a pleasure
working with

WILLIAMS
&
BURROWS, INC.

GENERAL CONTRACTORS

on many
of their splendid projects.

★

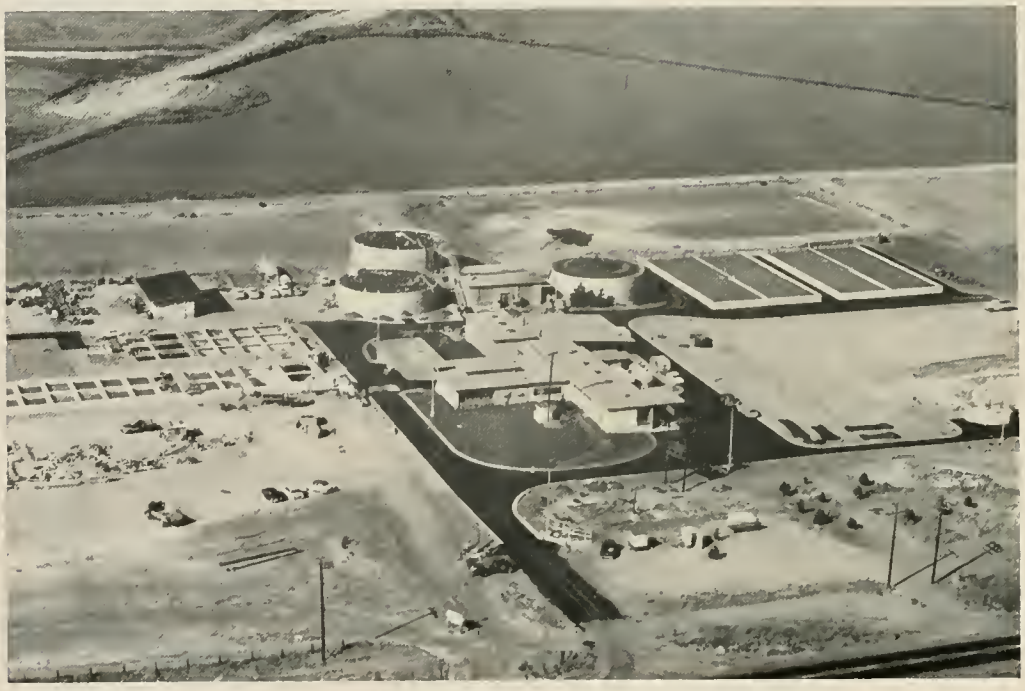
GEORGE W. REED & CO.

Masonry Contractor

1390 South Van Ness Avenue

San Francisco ATwater 2-1226

WILLIAMS and BURROWS, Constructors . . .



AERIAL VIEW of Contra Costa Sewage Plant addition. The lake adjacent to the plant was formed by flood waters. The 78" outfall line from the sedimentation tanks forms an integral part of the dyke protection system. (Brown and Caldwell, Engineers.)

Thomas M. Symons, Photograph

Lathing and Plastering

ON THE

PENINSULA HOSPITAL

STONE, MARRACCINI AND PATTERSON
Architects

WILLIAMS & BURROWS
General Contractors

BY

MARCONI PLASTERING CO., INC.

Over 25 Years in Business

211 MOULTON STREET
SAN FRANCISCO
Phone: WE 1-5555

The Peninsula Hospital in Burlingame, California, built by Williams & Burrows with the aid of Carl N. Swenson, Inc., was originally designed to take care of additional population growth in the area. A four-million dollar expansion program is now being effected whereby four floors can be added to the hospital without affecting those floors now in operation. The existing structure is of reinforced concrete and designed to accommodate only three more floors; but the archi-

Specializing in

MILLWORK AND CABINET WORK

of Distinction

◆

PARAMOUNT MILLWORK CO.

962 Stanford Ave., Oakland

Phone: OL 3-9911

RESIDENCE HALL

Santa Barbara Campus, University of California

Adapts Santa Barbara's master plan of Mediterranean architecture to the contemporary scene. Special emphasis has been given to the deep overhangs on the roofs.

Charles Luckman, Associates, Architects and Engineers.

Erwin Photo

tectural firm of Stone, Mulloy, Marraccini, and Patterson found that by using a steel framework an extra floor could be added. The steel system allows the use of lighter walls and floors, saving from 35 to 50 pounds per square foot of floor area. Smith and Moorehead are the structural engineers. One floor providing approximately 65 additional beds will be completed by Williams and Burrows in June, 1959. When the four additional floors are finished, Peninsula Hospital will be the largest in the county.

The Santa Clara County Hospital near San Jose has found that the 423 beds and 30 bassinets among their facilities are not nearly enough, and so they are

JUST OFF THE PRESS: FOR THE/CONTRACTOR/ENGINEER

FREE NEW COLOR BROCHURE

20 MOST POPULAR COLORS SELECTED BY LEADING ARCHITECTS

Famous COLORUNDUM color and hardness FUSED into concrete

You will want this new Colorundrum Color brochure containing helpful specifications on how to obtain colored concrete floors at little more than the cost of paint. For your copy write on your business letterhead.

A. C. HORN COMPANIES

SAN FRANCISCO • 550 Third Street, San Francisco 7, Calif.
LOS ANGELES • P. O. Box 3061, Los Angeles 54, Calif.
PORTLAND • 2438 North Nesmith Ave., Portland, Oregon
DENVER • 2050 West 7th Avenue, Denver 4, Colorado

SOLD BY BETTER BUILDING MATERIALS DEALERS EVERYWHERE

currently undergoing an extensive program of additions which will be completed by the end of 1959. Two contracts for the project were awarded to Williams and Burrows. The structures will utilize conventional beam and girder construction with exterior spandrel beams. The first contract of $4,561,615 is for seven stories and covers 180,000 square feet of space. Twelve thousand cubic yards of concrete are used in the architectural concrete structure which will have 357 beds and include general nursing, TB, pediatrics, X-ray, and surgery departments as well as five passenger elevators, four dumb waiters, and one freight elevator. There will be seven completed surgeries and provision for five additional ones in the future. Frank P. Michuda is the project supervisor.

The second contract for $1,514,800 will be an addi-

FOUNTAIN at entrance of Paul Massan's new champagne cellars is symbal of sparkling champagne.

Photo courtesy Mayton Architectural Fabricators, Inc.

ROTUNDA and RAMP

PAUL MASSON'S

CHAMPAGNE CELLARS

Highly symbalic masaic an Ratunda. Ratunda and ramp lead to aging cellars where visitars, an elevated balcany, may observe the entire winery and champagne making operatians.

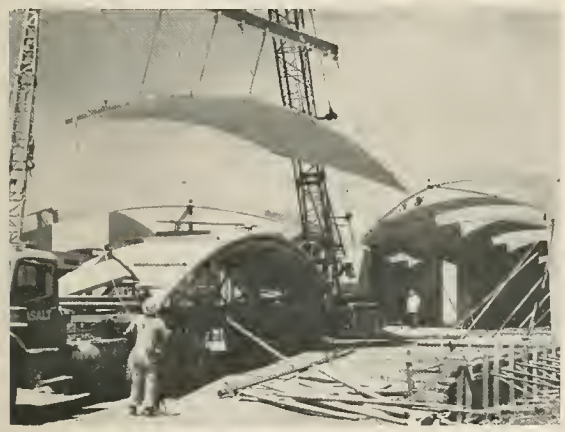
Pukle Jones,
Photograph

tion of five stories on top of a two-story structure, covering 53,000 square feet, and with space for 194 beds. The addition will include complete laboratory and morgue, maternity, general nursing, an extension of the TB ward, and communicable diseases. Frank Murray is the project supervisor. Stone, Mulloy, Marraccini, and Patterson are the architects on this job also. Structural engineer is George Washington, and Buonaccarsi and Murray are mechanical engineers.

Williams and Burrows are proud of their past records for building for the growing Bay Area which include beside the preceding projects:

The Florence Moore Hall (women's residences—seven buildings); Stern Hall Addition (two 3-story buildings); Microwave Laboratory additions, Physics Lecture Hall, Applied Electronics Laboratory and Telephone Exchange Building all for Stanford University. And, at the present time, Williams and Burrows have under construction 250 units in 54 apartment buildings for Married Students' Housing. This contract was awarded for $2,338,000.

The U. S. Naval Industrial Support Facilities for Lockheed Aircraft Corporation located in the Santa Cruz Mountains was completed in less than six months



plant-cast and prestressed by BASALT

The Parke-Davis building in Menlo Park is a unique structure that powerfully illustrates the great construction potential of Basalt plant-cast, prestressed concrete components. Basalt's complete production facilities, manned by skilled experts, provide diverse precast products—delivered on schedule by highway, rail or water. Precast construction is gaining in volume through the vision of progressive architects and engineers, and the production know-how of BASALT Rock Company.

Basalt CONCRETE PRODUCTS

BASALT ROCK COMPANY
NAPA, CALIFORNIA
Telephone BAldwin 6-7411

ROYAL SHOWCASE COMPANY

CONGRATULATES

WILLIAMS & BURROWS

•

CUSTOM FIXTURES

Stainless Steel

and

Cabinet Work

•

FOR HOSPITALS
STORES, BANKS
RESTAURANTS
CLUBS, BARS

•

ROYAL SHOWCASE CO.

770 McALLISTER STREET

SAN FRANCISCO 2

JOrdan 7-0311

PARKE-DAVIS

Warehouse and Office present a new, unique architectural design.

Minoru Yamasaki and Associates, Architects.

Knorr-Elliott & Associates, Resident Architect.

Ammann & Whitney, Structural Engineers.

Gabriel Moulin, Photograph

under the severest weather conditions. The contract for over $1,600,000 was to include extensive grading and road work, utility systems, several buildings and a large Missile Test Stand. Engineers were Aerojet-General Corporation.

Williams and Burrows constructed the permanent building for the Navy at Treasure Island. These include five three-story reinforced concrete barracks housing 1650 enlisted men; the reinforced concrete subsistence building to serve 3300; and the five-story reinforced concrete bachelor officer's quarters and dining facilities.

The contract for a group of buildings of various

(See page 30)

CONCRETE BUILDING

Side walls, ceiling beams and roof are all of concrete manufacture.

Photograph courtesy Basalt Rock Co.

PRE-CAST

CONCRETE

SECTIONS

Are delivered to building site via truck, thus saving on-site work.

Photographs courtesy Basalt Rock Co.

Beautiful New Stanford Research Institute, Menlo Park, Calif.

Custom Kaiser Shade Screens

by

WEST COAST WEATHERSTRIP CO.

"Heat Control Engineering Specialists"

851 Hamilton Ave. Menlo Park

DAvenport 5-1851

Specializing in Custom Screen Work

ELECTRICAL WORK

on the

CONTRA COSTA COUNTY TREATMENT PLANT

by

DEL MONTE ELECTRIC CO., Inc.

21602 Western Blvd. Hayward

Phone: ELgin 1-9411

American Institute of Architects

John Noble Richards, President
Philip Will, Jr., 1st Vice-President — Edward L. Wilson, Secretary
Henry L. Wright, 2nd Vice-President — Raymond S. Kastendieck, Treasurer
Edmund R. Purves, Executive Secretary

National Headquarters—1735 New York Avenue, N.W., Washington, D. C.

REGIONAL DIRECTORS—**Northwest District,** Donald J. Stewart, Portland, Oregon; **Western Mountain District,** Frederick H. Porter, Sr., Cheyenne, Wyoming; **California-Nevada-Hawaii District,** Ulysses Floyd Rible, Los Angeles, California.

ARIZONA CHAPTERS:

CENTRAL ARIZONA: A. John Brenner, President (Phoenix); Jimmie R. Nunn, Vice-President; Kemper Goodwin, Secretary; Lester Laraway, Treasurer. Directors: James W. Elmore, Martin R. Young, Jr., David Sholder. Office of Secy., P.O. Box 904, Phoenix.

SOUTHERN ARIZONA: Edward H. Nelson, President (Tucson). Gerald I. Cain, Vice-President; Robert J. Ambrose, Secretary; David S. Swanson, Treasurer. Directors: Emerson C. Sholer, D. Burr DuBois, Santry Fuller. Office of Secy., 2447 N. Stone, Tucson.

COAST VALLEYS CHAPTER:

William L. Higgins (San Jose), President; Paul J. Huston (Palo Alto), Vice-President; William H. Daseking (Menlo Park), Treasurer; Edward N. Chamberlain (San Jose), Secretary. Office of Secy., 390 Park Ave., San Jose.

CENTRAL VALLEY OF CALIFORNIA:

Joseph J. Jozens, President (Sacramento); Armsby Tod Hart, Vice-President; Albert M. Dreyfuss, Secretary; Whitson W. Cox, Treasurer. Office of Secy., 2127 "J" St., Sacramento.

COLORADO CHAPTER:

Casper F. Hegner, President; C. Gordon Sweet, Vice President; Norton Polivnick, Secretary; Richard Williams, Treasurer. Directors: James M. Hunter, Robert K. Puller, Edward L. Bunts. Office of Secy., 1225 Bannock St., Denver, Colorado.

EAST BAY CHAPTER:

George T. Kern, President; W. Roland Gibbs, Vice-President; Frank Lockwood, Secretary; Arthur Iwata, Treasurer. Directors: Robert J. Gianelli, Robert Oyarzo, Gerald McCue. Marjorie Montgomery, Exec. Sec'y. Office, Mezzanine, Hotel Claremont, Berkeley 5.

IDAHO CHAPTER:

Jed Jones, III, President (Boise); Clint Sundberg, Vice-President (Idaho Falls); Rod J. Grider, Sec-Treas. Director, H. Curtis Finch, Charles W. Johnston. Office of Secy., 205 N. 5th, Boise.

MONTEREY BAY CHAPTER:

Robert Stanton, President (Carmel); Walter Burde, Vice-President; William L. Cranston, Secretary; George Kuska, Treasurer. Office of Secy., P.O. Box 1846, Carmel.

MONTANA CHAPTER:

William J. Hess, President (Great Falls); John E. Toohey, Vice-President (Billings); H. C. Cheever, Secy.-Treas. (Bozeman). Directors: Oscar J. Ballas, Wm. J. Hess, John E. Toohey. Office of Sec., Bozeman, Montana.

NEVADA CHAPTER:

RENO: Howard Brandis, President; Russell Clopine, Vice-President; Ralph A. Casazza, Secretary; John Crider, Treasurer. Directors: Graham Erskine, George L. F. O'Brien, Lawrence A. Gulling, Albert Alegre. Office of Secy., 232 W. 1st. St., Reno.

WOMEN'S ARCHITECTURAL LEAGUE: (Reno) Eileen Casazza, President; Jane Brandis, Vice-President; Jane Mathews, Secy., Enid Hellman, Treasurr.

LAS VEGAS: Walter P. Zick, President; Aloyius McDonald, Vice-President; Edward B. Hendricks, Secy.-Treas. Directors: Walter F. Zick, Edward Hendricks, Charles E. Cox. Office of Secy., 106 S. Main St., Las Vegas.

NEVADA STATE BOARD OF ARCHITECTS:

Russell Mills, Chairman (Reno); Aloysius McDonald, Sec-Treas. Members: L. A. Ferris, Elmo C. Bruner, Edward S. Parsons. Office, 1420 S. 5th St., Los Vegas.

NORTHERN CALIFORNIA CHAPTER:

Donald Powers Smith, President; Corwin Booth, Vice-President; Joseph Esherick, Secretary; Richard S. Banwell, Treasurer. Directors: John W. Kruse, John L. King, Alexander Yuill-Thornton, Andrew Hass. May B. Hipsbman, Exec.-Sec'y. Office, 47 Kearny St., San Francisco.

ORANGE COUNTY CHAPTER:

William T. Jordan, President (Costa Mesa); Donald M. Williamson, Vice-President (Laguna Beach); J. Herbert Brownell, Secretary; Rumont W. Hougan, Treasurer. Office of Secy., 1950 W. Coast Highway, Newport Beach.

OREGON CHAPTER

Albert W. Hilgers, President; Robert C. Douglas, Vice-President; Everett B. Franks, Secretary; John W. Foster, Treasurer. Directors: Norman C. Zimmer, Joseph J. Rudd, John K. Dukehart, Donald W. Edmundson, Daniel McGoodwin. Office of Secy., 512 McKay Bldg., Portland 4.

MAX R. HORWITZ, AIA NAMED OFFICIAL OF ARCHITECTURAL FIRM IN LOS ANGELES

Announcement has been made of the appointment of Max R. Horwitz, AIA, architect as vice-president and director of Charles Luckman Associates, planning-architectural-engineering firm of Los Angeles and New York.

Horwitz has been active in all phases of architecture for the past 28 years and as senior architect and later project architect, participated in the design and planning of the J. W. Robinson Co., department stores in Beverly Hills and Palm Springs, CBS Television City in Los Angeles, and Marineland of the Pacific, Palos Verdes.

CHARLES JONES has been appointed an Associate in the architectural firm of Victor Gruen Associates, Los Angeles. He has been with the firm for the past seven years an an interior designer, project coordinator and architectural designer. A graduate of the University of Southern California College of Architecture, he was the recipient of 1st place Award in Crane's 1953 national competition.

SAN FRANCISCO ARCHITECTURAL CLUB

Robert McKim, faculty member of Stanford University, was the principal speaker at a recent meeting, discussing and presenting a motion picture film on "Industrial Design."

SANTA CLARA AND SANTA CRUZ COUNTIES CHAPTER

"What Is News?" was the subject of a recent meeting with Jeanette Befame discussing "Public Relations." Recent new members include Robert Blunk and Bill Hawley, Corporate. Earl Lewis has been named Chairman of the April meeting.

NORTHERN CALIFORNIA CHAPTER

"What Place for the Architect in Community Planning" was the subject of general discussion at the March meeting with Joeseph Eichler, Mary Ellen Leary, Francis Violich, and James H. Scheuer serving as members of a panel moderated by Robert S. Anshen.

SOUTHERN CALIFORNIA CHAPTER

Lawrence Halprin, Landscape Architect of San

Francisco, was the principal speaker at the March meeting, illustrating his remarks with slides. Some of the work exhibited by the speaker encompassed whole communities including landscaping, space, circulation and facilities.

EAST BAY CHAPTER

Winners in the WAL's High School Competition were given awards at the April meeting, April 9th at Spenger's. Architects who are members of the Golden Gate Section, Illuminating Engineering Society, or the engineer-partners of architects, are invited to enter a residential lighting competition.

ARCHITECTURAL FIRM CHANGES

Announcement has been made of the formation of the architectural firm of Stone, Marraccini and Patterson, San Francisco, a California Corporation furnishing architectural services by or under the supervision of certified architects.

The new firm is successors to the firm of Stone, Mulloy, Marraccini & Patterson, San Francisco.

PASADENA CHAPTER

The annual Joint-Meeting with the Producers' Council was observed in March at the Pasadena Elks Club, with entertainment, door-prizes and informality prevailing.

May 16th has been set as the date of the annual Pasadena Radcliffe Modern House Tour, observed this year under chairmanship of Mrs. Hobert Barnes.

Recent new members include: Thomas T. Chino, Fred S. Hassouna, Russell W. Hobbs, Mrs. Jean G. Killion and Donald R. Morrison, Corporate Members. E. William Carvin, Ronald J. Delahousie, Herbert J. Gerhardt, and Mrs. Arloa B. Price, Associates.

CALIFORNIA COUNCIL

Lee B. Kline, Pasadena, has been elected president of the California Council of Architects for 1959-60.

Other officers chosen to serve with Kline are: Wayne S. Hertzka, San Francisco, vice-president; Thornton M. Abell, Los Angeles, Secretary; Allen Y. Lew, Fresno, Treasurer, and William L. Higgins, San Jose, member at large of the Administrative Committee.

Regional AIA Director U. F. Rible, Los Angeles, was made a member of the Council's Administrative Committee, which will continue to furnish liaison between California AIA components and the national AIA.

The new CCAIA officers were installed by the National AIA president John Noble Richards, FAIA, who was also guest of honor at a San Joaquin Chapter banquet. Richards was also honored at a second banuet sponsored by the East Bay Chapter, Northern California Chapter, Coast Valleys Chapter and the Monterey Bay Chapter.

PASADENA CHAPTER:

Edward D. Davies, President; Keith P. Martin, Vice-President; Ward W. Deems, Secretary, Roland L. Russell, Treasurer, and Directors: H. Douglas Byles, Leland L. Evison, Mal Gianni, and Donald E. Neptune. Office 170 E. California St., Pasadena

SAN DIEGO CHAPTER:

Raymond Lee Eggers, President; William F. Wilmurt, Vice-President; David P. A. Ruocco, Secretary; Delmar S. Mitchell, Treasurer Directors: John C. Deardorf, Richard George Wheeler and Sam Bruce Richards Office of the Secy., 3603 5th Ave., San Diego 3.

SAN JOAQUIN CHAPTER:

Robert C. Kaestner, President (Visalia); William G. Hyberg, Vice-President (Fresno); Lawrence B. Alexander, Secretary; Edwin S. Darden. Office of Secy., 128 E. 8th St., Hanford.

SANTA BARBARA CHAPTER:

Wallace W. Arendt, President (Santa Barbara); Darwin E. Fisher, Vice-President (Ventura); Walter Tibbetts, Secretary; Kenneth H. Hess, Treasurer. Office of Secy., 630 Para Grande Lane, Santa Barbara

SOUTHERN CALIFORNIA CHAPTER:

Maynard Lyndon, President; A. Quincy Jones, Vice-President; Howard Morgridge, Secretary; Henry Silvestri, Treasurer. Office of Secty., 208 W. 8th St., Los Angeles.

SOUTHWEST WASHINGTON CHAPTER:

Robert Billsborough Price, President; Robert T. Olson, 1st Vice-President; Donald P. Burr, 2nd Vice-President; Percy G. Ball, Secretary; Alan C. Liddle, Treasurer; Charles T. Pearson and George Leonard Elkvall, Trustees. Office of Secy., 2715 Center St., Tacoma 2, Washington.

UTAH CHAPTER:

W. J. Monroe, Jr., President, 433 Atlas Bldg., Salt Lake City; M. E. Harris, Jr., Secretary, 703 Newhouse Bldg., Salt Lake City.

WASHINGTON STATE CHAPTER:

Harrison J. Overturf, President; Lawrence G. Waldron, 1st Vice-President; Thomas F. Hargis, Jr., 2nd Vice-President; Talbot Wegg, Secretary; David R. Anderson, Treasurer. Office of Secy., Miss Gwen Myer, Executive Secty., 409 Central Bldg., Seattle 4.

SPOKANE CHAPTER:

Wm. C. James, President; Carl H. Johnson, Vice-President; Keith T. Boyington, Secretary; Ralph J. Bishop, Treasurer; Lawtence G. Evanoff, Carroll Martell, Kenneth W. Brooks, Directors. Office of the Secy., 615 Realty Bldg., Spokane.

HAWAII CHAPTER:

Howard L. Cook, President; Douglas W. Freeth, Vice-President; Francis S. Haines, Secretary; Clifford F. Young, Treasurer. Directors, Richard N. Dennis, Frank Slavsky, William D. Merrill. Office of Secretary, 1410 Kapiolani Blvd., Honolulu 14.

CALIFORNIA COUNCIL, THE A.I.A.:

L. F. Richards, Santa Clara, President; Lee B. Kline, Los Angeles, Vice-President; Edward H. Fickett, Los Angeles, Secretary; Allen Y. Lew, Fresno, Treasurer. Miss Mary E. White, Office Secretary, 703 Market Street, San Francisco 3.

CALIFORNIA STATE BD. ARCHITECTURAL EXAMINERS:

Malcolm D. Reynolds, President (Oakland); Kenneth Wing, Secretary (Long Beach); Wendell R. Spackman (San Francisco); Paul Davis (Santa Ana), and Frank Cronin, Executive Secy., 1020 N St., Sacramento 14.

ALLIED ARCHITECTURAL ORGANIZATIONS

SAN FRANCISCO ARCHITECTURAL CLUB:

Orville Hickenlooper, President; Morris Barnett, Vice-President; John Beckman, Secretary; Carvel Johnson, Treasurer. Directors: Frank Barsotti, Frank Capone, Glenn Crellin, Mel Rojko. Office of Secty., 507 Howard St., San Francisco 5.

PRODUCERS' COUNCIL—SOUTHERN CALIFORNIA CHAPTER:

Clay T. Snider, President, Minneapolis-Honeywell Regulator Co., L.A.; E. J. Lawson, Vice-President, Aluminum Company of America, L.A.; E. Phil Filsinger, Secretary, Gladding, McBean & Co., L.A.; William G. Aspy, Treasurer, H. H. Robertson Co., L.A.; Henry E. North, Jr., National Director, Arcadia Metal Products, L.A.; Office of the Secy., 2901 Los Feliz Blvd.

PRODUCERS' COUNCIL—NORTHERN CALIFORNIA CHAPTER:

R. W. Harrington, President, Clay Brick & Tile Ass'n.; P. C. Christensen, Vice-President, Truscon Steel Div., Republic Steel Corpn.; Philip D. Mattell, Secretary, Otis Elevator Co.; William E. Black, III, Treas., Libby, Owens, Ford Glass Co.

PRODUCERS' COUNCIL—SAN DIEGO CHAPTER:

Eugene E. Bean, President, Fenestra Inc., James I. Hayes, Vice-President, Westinghouse Electric Co.; E. R. Shelby, Secretary, The Celotex Corp. (El Cajon); Joseph C. Langley, Treasurer, Republic Steel Corp., Truscon Steel Div. (Lemon Grove). Office of Secy., 1832 Wedgemore Rd., El Cajon.

CONSTRUCTION SPECIFICATIONS INSTITUTE—LOS ANGELES:

George Lamb, President; Herman Boisclair, Vice-President; Jack Whiteside, Secretary; Frank Rasche, Treasurer. DIRECTORS: Walter Hagedohm, Raymond Whalley, Martin A. Hegsted, Chas. F. Wetherbee, Arthur T. Raitt and E. Phil Filsinger. Advisory Member: R. R. Coghlan, Jr. Office of Secy., Box 26114, Edendale Sta., Los Angeles 22.

CONSTRUCTION SPECIFICATIONS INSTITUTE

San Francisco Area Chapter:

Leonard M. Tivol, President; Emery Theo. Hirschman, Vice-President; Roual D. Shelly, Treas.; William LaGette, Secty. Directors: Frank L. Barsotti, Herman R. Jobst, Walter M. Krohn, Charles S. Pope, Erland Siran. Office of Secty., Kaiser Aluminum & Sales Co., 360 22nd St., Oakland 12.

WITH THE ENGINEERS

Structural Engineers Association of California
Joseph Sheffet, President; J. Albert Paquette, Vice-President; William A. Jensen, Secty.-Treas. Directors: R. W. Binder, C. M. Herd, H. J. Degenkolb, H. F. Finch, J. M. Sardis, D. M. Wilson and H. S. Kellam. Office of Secty., 64 Pine Street, San Francisco.

Structural Engineers Association of Northern California
Charles De Maria, President; Leslie W. Graham, Vice-President; Samuel H. Clark, Secty; H. Robert Hamill, Asst. Secty.; William K. Cloud, Treas. Directors: Chas. De Maria, Leslie W. Graham, Marvin A. Larson, Eric O. Moorehead, J. Albert Paquette, Donald M. Teixeira, Richard J. Woodward. Office of Secty., 417 Market St., San Francisco 5.

Structural Engineers Society of the East Bay
M. P. Superak, President; D. R. Judd, Vice-President; MacGregor Graham, Sec'y-Treas. Office of Sec'y, 1952 Wright Ave., Richmond.

Structural Engineers Association of Central California
A. L. Brinckman, President; Wendell F. Pond, Vice-President; Gordon M. Hart, Sec.-Treas.; Jack S. Barrish, Norman W. Beattie, Albert T. Brinckman, James J. Doody and Wendell F. Pond, Directors.

Structural Engineers Association of Southern California
Harald Omsted, President; Jack Sparling, 1st Vice-President; Roy Johnston, 2nd Vice-President; Marvin J. Kudroff, Secretary. C. M. Biddison, Treasurer. Directors: Carl Nelson, Irvan Mendenhall, William Ropp, Charles Peterson, Robert Wilder and Norman Green. Office of Secty., 2808 Temple Street, Los Angeles 26.

AMERICAN SOCIETY OF CIVIL ENGINEERS SAN FRANCISCO SECTION

The Design and Construction of the San Francisco Giants Baseball Stadium was the subject of the March meeting with architect John S. Bolles, architect for the project, the principal speaker. The following Saturday, those who desired to avail themselves of the opportunity, were taken on a "tour" of the Candlestick Point project now under construction by Chas. L. Harney Inc.

ENGINEERS SPEAKERS' CLUB BUSY

The San Francisco Engineers' Speakers Club members gave more than thirty speeches for National Engineers Week this year, throughout the Bay Area. The demand for talks to civic groups by engineers was so great that the schedule designed for Engineers' Week was extended into March.

President Carl W. Otto and Past-president Harry Moses, served on the Bay Area Committee for Engineer's Week for contacts and speakers.

FEMINEERS

The Femineers of San Francisco held their regular March meeting in the San Francisco Women's Athletic Club, with Margaret Woodall Thrall of Oakland giving an interesting Book Review. Chairmen for the program were Mesdames F. R. Preece, W. J. Keener, and G. P. Maurer.

BARNES ELECTED PRESIDENT STATE ENGINEERS BOARD

The California State Board of Registration for Civil and Professional Engineers, have elected S. B. Barnes, Los Angeles civil and structural engineer, President of the Board for 1959. G. M. Simonson was elected as vice-chairman.

Barnes, prominent in civil and structural engineering activities throughout the West, opened offices for private practice in 1933. Prior to that time he had served the City of Los Angeles and the State of California as an engineer and has been associated with the firm of Oliver S. Bowen.

SOCIETY OF AMERICAN MILITARY ENGINEERS—San Francisco Post

Dr. John F. Brahtz, vice-president and Director of Engineering of J. H. Pomeroy & Company, was the principal speaker at a recent meeting taking as his subject "Planning for Future Construction."

The Pomeroy firm has recently undertaken some unusual projects in connection with the new Pacific Missile Range, and other military installations, and the complex technical features of certain of these facilities were discussed. Slides were shown and relationships between planner, designer, and builder explained to emphasize the contributions which will be required of the architect, the engineer, and the con-

WALLS OF CLEANLINESS--
KRAFTILE GLAZED STRUCTURAL UNITS
Easy To Clean — Low Maintenance — Wear Forever

1 FOR Shower Rooms, Dressing Rooms, Wash Rooms — in schools, factories, institutions. Not affected by steam, chemicals, stains or odors.

2 FOR Surgeries, Laboratories, First Aid Rooms, Veterinary Hospitals. Fire resistant, vermin proof. Won't chip, crack or fade.

3 FOR Food Processing Plants, Kitchens, Lunchrooms, Dairies — or wherever low cost maintenance, high sanitation standards and permanent, economical construction are indicated. Never needs patching or painting.

Complete wall and finish combined. Modular 6" x 12" face size for easy, low-cost installation by masons alone. Wall thicknesses, 2", 4" and 6". Kraftile quality control assures uniformity in color, size, shape and structural strength. Available in clear and 12 lifelong ceramic color glazes.
Ask for free Fact Sheets, specifications, Graphic Standards Manual.

KRAFTILE COMPANY
NILES, CALIFORNIA
MADE IN THE WEST . . . FOR WESTERN CONSTRUCTION

American Society of Civil Engineers
Los Angeles Section
George E. Brandow, President; Ernest Maag, Vice-President; L. LeRoy Crandall, Vice-President; J. E. McKee, Secretary; Alfred E. Waters, Treasurer. Office of Secy., California Institute of Technology, Pasadena, Calif.
Secy.-Treas.: 4865 Park Ave., Riverside. Ventura-Santa Barbara Counties Branch, Robert L. Ryan, Pres.; Richard E. Burnett, Vice-President; George Conahey, Secy.-Treas., 649 Doris St., Oxnard.

American Society of Civil Engineers
San Francisco Section
Wm. W. Moore, President; Harmer E. Davis, 1st Vice-President; John A. Blume, 2nd Vice-President; B. A. Vallerga, Secretary; Ben C. Gerwick, Jr., Treasurer. Office of the Sec. (Mrs. Ola H. Dewell, Mgr.) Room 302, Atlas Bldg., 604 Mission St., San Francisco 5.
San Jose Branch
Stanley J. Kocal, President; Charles L. Coburn, Vice-President; Myron M. Jacobs, Secty. and Treas.

Structural Engineers Association of Oregon
Charles H. Woodworth, President; Arthur M. James, Vice-President; Cyril Burgstahler, Secy-Treas. Directors, James G. Pierson, George A. Guins, Robert M. Bonney, Albert P. Jensen, Jr. Office of Secy 717 Bd. of Trade Bldg, 310 S.W. 4th Ave. Portland 4, Oregon.

Society of American Military Engineers
Puget Sound Engineering Council (Washington)
R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer; Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials
Northern California District
R. W. Horrington, Chairman; G. L. Grieve, Vice-Chairman; R. C. Vollmer, Secretary. Office of Secty., 988 Creston Road, Berkeley 8, Calif.

American Society for Metals
Los Angeles Chapter: John E. Wilson, Chairman: Stuart K. Oliver, Vice-Chairman; H. A. Curwin, Secretary; W. V. Wood, Treasurer; K. L. Clark, Asst. Secretary. Office Secy., Earle M. Jorgensen Co.

Society of American Military Engineers—San Francisco Post
Col. Edwin M. Eads, USAF, President; C. R. Groff, 1st Vice-President; Col. Seymore A. Potter, Jr., 2nd Vice-President; Roger L. Cairns, Secretary; Donald C. Bentley, Treasurer. Directors—Col. John S. Hartnett, USA; Donald McCall; Capt. A. P. Gardiner, USN; C. Grant Austin, and Rex A. Daddisman. Office Secy. USAF, U.S. Appraisers Bldg, 630 Sansome St., San Francisco.

---

structor in providing the structures to accommodate the intricate weapons system of the future.

STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

An opportunity to view the results of a $214-million expansion program was given approximately 250 members and guests of the Structural Engineers Association, Southern California, when the group toured Kaiser Steel's Fontana plant recently.

The expansion, largest in West Coast history, practically doubled Kaiser Steel's capacity, making it the largest steel producer west of the Mississippi. The program was completed February 1 after a two and a half year construction period.

During the afternoon, early arrivals were given a daylight tour of the new facilities.

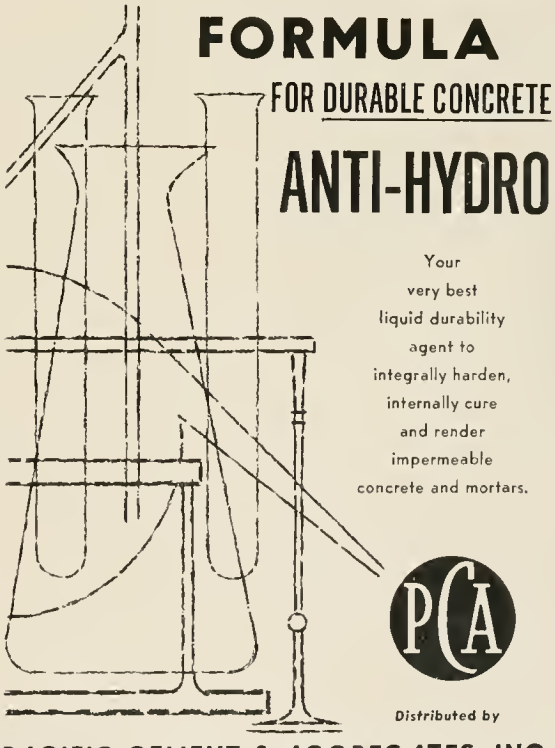
The Fontana plant, situated 45 miles east of Los Angeles, is the only fully-integrated steel mill on the Pacific Coast. In the steel industry, the term "integrated" is used to describe a mine-to-market operation—one that mines its own raw materials, converts them into hot metal (pig iron) in blast furnaces, produces steel, and rolls the steel into finished products.

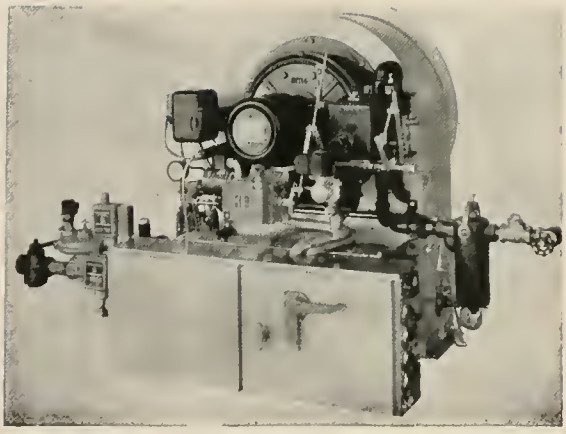
Association members on the afternoon tour saw the raw materials area, where iron ore, coal and limestone are brought in from the company's mines in California, Utah and New Mexico, graded and stored mechanically in great piles.

Harald Omsted, president of SEAOSC, welcomed the members and guests and Donald Moran, program chairman, introduced Al Lynch, assistant director of Public Relations for Kaiser Steel.

After a few introductory remarks, Mr. Lynch introduced Bill Way, field engineer for Kaiser Engineers, who designed, engineered and constructed the entire expansion project.

Recent new members include: Bernard A. Schumaker, Associate Member; Gordon B. Jones, Junior Member; Gerald S. Kovacs, Student Member; Arnold D. Metcalf, Affiliate Member, and Edward T. Thorhaug, Student.


FORMULA
FOR DURABLE CONCRETE
ANTI-HYDRO
Your very best liquid durability agent to integrally harden, internally cure and render impermeable concrete and mortars.
PCA
Distributed by
PACIFIC CEMENT & AGGREGATES, INC.
Yards and Batch Plants Throughout Central & Northern California
General Offices: 400 Alabama St., San Francisco
KLondike 2-1616



JOHNSON Forced Draft BURNERS

For firing with Oil only . . . Gas only . . . or Combination Oil or Gas. Wired, tested and completely assembled at the factory ready for easy, inexpensive attachment to any boiler or heat receiver. They provide smoother, more efficient combustion regardless of stack conditions and firebox pressure variations. Powered by the famous Johnson Mod. 53 Burners, these "packaged" units are available for any heating need, in sizes from 28HP to 560HP.

Johnson Oil Burners

S. T. JOHNSON CO.

940 ARLINGTON AVE. OAKLAND 8, CALIF.
CHURCH ROAD BRIDGEPORT, PA.

WILLIAMS and BURROWS

(From page 24)

types of construction including the tilt-up, concrete and structural steel frame for the U. S. Atomic Energy Commission at Livermore is nearing completion. These buildings include the Administration Building, Laboratory Building, Model Shop Building, Test Building, Steam Plant, Warehouse Building and Engineering Test Building with the contract awarded for about $3,750,000.

Williams and Burrows top quality construction kept in line with economy and contemporary lines for the growing Bay Area are proud of the record.

CORRECTION

An error, one of those unavoidable things which occur in the publishing business, appeared in the March 1959 issue of ARCHITECT and ENGINEER magazine, much to the chagrin of the publishers of the magazine and to all concerned.

In reviewing 45-years of "Building For A Better World," featuring the work of the Dinwiddie Construction Company, two photographs appeared on page 14 showing the new State Wide Office Building of the University of California in Berkeley. Inadvertently credit was given to Warnecke & Warnecke as being the Architects, while in reality the architects for the building were Welton Becket and Associates, Los Angeles. We are extremely sorry this error occurred.

RAYPAK *gas-fired copper tube boilers*

20 Year Guarantee

(ON CENTRAL HEATING SYSTEMS.)

At least a score of years of sound performance may now be added to the efficiency, economy of installation, copper and bronze waterways and many other advantages enjoyed by users of Raypak boilers an hydronic systems.

Raypak's fabulous stainless steel burners and gas modulation systems combined with the above make Raypak hot water boilers superior - - - BY FAR.

MEMBER BETTER HEATING–COOLING COUNCIL

Raypak® COMPANY, INC.
Engineers-Manufacturers

2416 CHICO AVENUE, EL MONTE, CALIFORNIA

ARCHITECT SELECTED FOR SCHOOL

Lawrence G. Thomson, 125 W. 3rd Street, Chico, has been commissioned by the Plumas Unified School District of Quincy, to design improvements to the district's school properties in Greenville, Taylorsville, Chester, and Quincy.

STATE BAR TO BUILD BUILDING

Architects Hertzka & Knowles, 32 Fremont Street, San Francisco, are preparing working drawings for construction of a two-story and basement office building at McAllister and Franklin streets in San Francisco for the State Bar Association of California.

The building, costing an estimated $400,000, will be of structural reinforced concrete and aluminum window wall; some polished granite, Italian Mosiac tile and the structure will be set-back on all sides of the site with landscaped areas.

STANFORD RESEARCH INSTITUTE TO EXPAND

Architects Stanton & Stockwell, 627 South Carondelet Street, Los Angeles, are preparing preliminary plans for construction of a new research building for Stanford Research Institute in Stanford Village, Menlo Park.

The new structure represents the second permanent of the Institute to be constructed in Menlo Park and will cost an estimated $2,700,000.

FRANK LLOYD WRIGHT DESIGNS MARIN FAIR PAVILION

Architect Frank Lloyd Wright, has been commissioned by the Marin County Board of Supervisors to draft plans and specifications for construction of a 3,000 seat amphitheatre, an Olympic-size swimming pool and a Fair Pavilion at the Marin County Fairgrounds.

The new structures will cover an estimated 3 acres.

NEW TELEVISION STUDIO PLANNED FOR FRESNO

The architectural firm of Walter Wagner & Partners, 1830 Van Ness, Fresno, has completed drawings for construction of a $173,800 television studio to be constructed in Fresno for television station KMJ, Fresno.

SAFEWAY STORES ANNOUNCE LARGE CONSTRUCTION

The architectural firm of Wurster, Bernardi & Emmons, 202 Green Street, San Francisco, is completing preliminary plans for construction of 32 new supermarkets in the San Francisco Bay area for Safeway Stores at an estimated construction cost of $20,500,000.

The proposed new supermarket and sales outlets will be located in San Jose, San Francisco, Cupertino, San Carlos, Orinda, Felton, Richmond, Berkeley, Concord, Oakland, Santa Clara, San Leandro, Danville, Los Altos, Saratoga, Fremont and Santa Rosa. Also included in the program is a new perishable-goods warehouse of 200,000 sq. ft. to be built on the company's 70-acre distribution center site in Richmond.

CONTRACTORS NEW GROUP METHODS ARE OUTLINED

Formation of five nearly autonomous associations within the framework of the Building Contractors Association of California is underway, according to John H. Kuhl, BCA president.

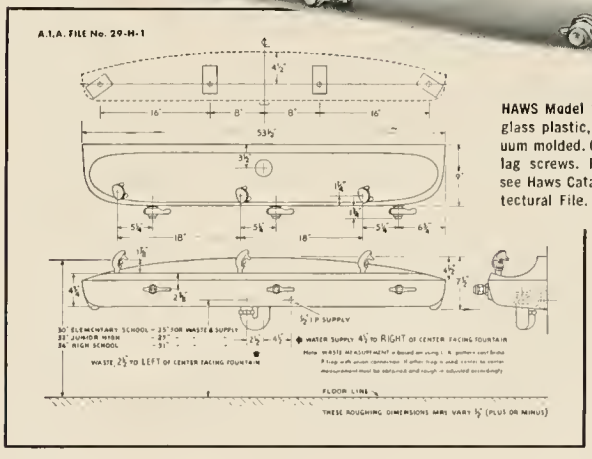
The new structure of what is described as the oldest and largest regional association of builders in the United States began as an experiment with the formation of councils in 1956 for home builders, commercial-industrial builders, modernization contractors, school builders and framing contractors.

Each of the five groups will have its own legislative and public relations programs, its own staff and will function independent of the BCA to the extent that its work on the problems confronting builders specializing in the type of construction with which the group is concerned will not be influenced by other members.

Problems common to the entire industry will still be met by the combined strength of the combined five councils and 15 area chapters.

MOLDED IN FIBERGLASS

in choice of **COLORS** HAWS



HAWS Model 10Y: reinforced fiberglass plastic, heat laminated, vacuum molded. Concealed hanger and lag screws. For complete details see Haws Catalog in Sweet's Architectural File.

In fiberglass, in color ... and a design as fresh as the latest architectural trends! HAWS Model 10Y brings welcome beauty and color appeal to school and institutional environments. It's vacuum molded in tough, lightweight, acid resisting fiberglass —with smooth lines and 100% concealed trim. HAWS vandal proof, shielded bubblers are anti-squirt, with HAWS Flow Controls. Choose from five decorator colors and white at no extra cost! Write for the complete specs on Model 10Y (and also Model 10X, the same fine design in enameled iron).

See HAWS Catalog in Sweets Architectural File for data on the entire Haws line.

HAWS DRINKING FAUCET COMPANY

1441 FOURTH STREET • BERKELEY 10, CALIFORNIA

LATHING AND PLASTERING

INFORMATION

Sponsored by the following Cooperative Groups

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street, Oakland 12, GLencourt 2-0313. Servicing Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue, San Carlos, LYtell 3-2634. Servicing San Mateo and Santa Clara Counties.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16, GLadstone 1-1879. Servicing Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

THE NEW LOOK . . . LATH AND PLASTER

by

Robert E. Scott, Field Representative

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA

2224 Webster St., Oakland, California

THE FUNCTIONAL AND MODERN DEVELOPMENT OF AN OLD INDUSTRY

Lathing and Plastering has won a recognized, respected place in the parade of new construction materials. A few short wears ago this industry had been analyzed as losing an important battle with Progress. However, new materials and equipment were introduced, new experimental methods for testing these materials were employed and most important, a local and national representative program was brought into play to emphasize how important Lath and Plaster is to the demanding requirements of the New Look in today's construction movement. The Lath and Plaster Industry is active locally and nation-wide, to bring to the attention of the home builders, building authorities, architects and contractors, the important and economic advantages of Lath and Plaster, not merely as an interior finish, but as an integral part of their construction.

New fields of modern usage of these two crafts have been developed. In over one hundred and ten cities, stretching from coast to coast there are Lathing and Plastering Bureaus or Institutes, with up-to-date data and experienced field representatives who have every material idea available to them. The aforementioned Bureau or Institute Field Personnel are representing the Lath and Plaster Industry only. Their tools are a wide knowledge of field experience, freedom of selection of material for any requested condition, and up-to-date accurate unit costs compiled from estimating records of Lathing and Plastering Contractors.

An architect designing a building in a city other than his residence of practice can gain full knowledge of conditions, unit costs and jurisdictional requirements of trades by contacting that city's Bureau or Institute representative.

Our industry is now developing an architectural manual for architects by an architect. This book is under the direction of a Princeton, New Jersey architect, Mr. John Diehl, and it is known as the John Diehl Program. The manual will represent the first form assembly of complete nationally used and recognized methods of lathing systems, plaster applications, fire-proofing with lath and plaster, and many new acoustical plasters that are now most extensively used.

Questions might be asked such as; "What are these Bureaus?" "Who sponsors them?" "How are they administered?"

The above mentioned Bureaus or Institutes are non-profit organizations dedicated to the public interest for better building. They are sponsored jointly by management and labor and are administered on the same basis. They work in conjunction with manufacturers to develop new materials and enforce manufacturers' specifications.

In conclusion, here is one of the oldest industries involved in building. As early as 3000 B.C. plaster was used, affording the builders of Egyptian pyramids a durable building material that has passed the test of time. This modernized Industry now offers the architectural profession freedom of design, new tested materials and quality workmanship, backed by a nation-wide field program.

BE SMART! Have that NEW LOOK with LATH AND PLASTER.

BOOK REVIEWS
PAMPHLETS AND CATALOGUES

APARTMENTS AND DORMITORIES. F. W. Dodge Corp., 119 W. 40th St., New York 18.

A finely illustrated survey of outstanding multiple dwellings, including fifty-three projects chosen by the editors of Architectural Record, which were erected between 1950 and 1958. A period of great activity in residential construction generally and marked by higher standards of construction than those of previous years.

The buildings covered in the book illustrate what can be done by thoughtful use of appropriate building design, full utilization of the site, and long range planning which takes into account the social and economic needs of the community. The apartments and dormitories range in size from a 2-family house to a project planned for 80,000 people, and represent many parts of the United States, Europe, South America, and Japan. The work represents some of the nation's outstanding architects and some of the less publicized but highly talented designers.

AT HOME WITH TOMORROW. By Carl Koch. Reinhardt & Company, Inc., 232 Madison Ave., New York 16, N. Y. Illustrated, 206 pages. Price $6.95.

The author describes his personal quest for the "good, the Beautiful, and the inexpensive," in housing today. The book deals with and answers the questions "How can the would-be home owner know what is the best buy for him, and how can he get it," "Why is one third of our population ill housed?" "Why are 85 per cent of the houses in this country being built without architectural supervision?". It is in no sense a "how to" book, but deals with what a man wants and needs in his home. It tells a woman how her desire for a beautiful home can be combined with her practical requirements.

HOW TO BECOME A PROFESSIONAL ENGINEER. By John Constance, M.E. Mc-Graw-Hill Co., 327 W. 41st St., New York 36, N. Y. Illustrated, 288 pages. Price $5.50.

Many non-licensed engineers can benefit from this book as it is a clear comprehensive guide book for both unlicensed engineers-in-practice and young graduates, on how to obtain a professional engineer's license. Sixteen practical chapters, lists and clarifies the seven basic requirements for licensure; summarizes in plain terms the various state registration laws; and shows clear examples of how examination boards evaluate the experience of the candidate.

FIELD INSPECTION OF BUILDING CONSTRUCTION. By Thomas H. McKaig. F. W. Dodge Corp., 119 W. 40th St., New York 18, N. Y. 252 pages. Price $9.35.

This is the first comprehensive handbook ever published on the supervision of building construction by the architect, engineer, and the field inspector. It will be highly valued for the clear path it charts through the maze of owner-architect-engineer-contractor-subcontractor relations. It defines and explains responsibility for such matters as quality of materials, quality of workmanship, coordination of work by different trades, schedules, storage of materials, provision of utilities and services, safeguarding of work in place, safety precautions, and other vital functions.

NEW CATALOGUES AVAILABLE

Architects, Engineers, Contractors, Planning Commission members—the catalogues, folders, new building products material, etc., described below may be obtained by directing your request to the name and address given in each item.

Sculptor to architecture, industry and commerce. A new pamphlet presenting in picture form the use of sculpture in building; prepared specially for architects, designers, contractors, planners, school officials and builders. Free copy write DEPT-A&E, Dick Wiken, Designer-Sculptor, 3723 N. Oakland Ave., Shorewood 11, Wisconsin.

Sawn lumber paneling. New booklet features the linearity and versatility of sawn lumber paneling; full color, shows scope of possibility for making use of the lines formed by the

HAAS and HAYNIE
Formerly Haas Construction Company
Since 1898
275 PINE ST.
SAN FRANCISCO, CALIF.
Phone DOuglas 2-0678

"AMERICAN-MARSH"
CONDENSATION UNIT
Durable — Economical
Stocked Locally
Please contact us for information on All Pumping Problems.
— CALL —
SIMONDS MACHINERY CO.
DOUGLAS 2-6794
816 Folsom St. San Francisco
SIMONDS FOR PUMPS

JUDSON PACIFIC - MURPHY CORP.
Steel Fabricators and Erectors
REINFORCING STEEL
STRUCTURAL STEEL
BRIDGE CRANES
4300 EASTSHORE HWY. EMERYVILLE, CALIF.
Phone: OL 3-1717

Western Distributors Herring-Hall Marvin Safe Company Hamilton, O.
DESIGNERS • MANUFACTURERS
SAFES • VAULTS • MONEY CHESTS
FEDERAL BURGLAR ALARMS
THE HERMANN SAFE CO.
1699 Market St., San Francisco 3, Calif. Tel.: UNderhill 1-6644

FORDERER CORNICE WORKS

Manufacturers of

Hollow Metal Products • Interior Metal Trim
Elevator Fronts and Cabs
Metal Plaster Accessories • Sanitary Metal Base
Flat and Roll Metal Screens
Metal Cabinets • Commercial Refrigerators

269 POTRERO AVE.

SAN FRANCISCO, CALIF. HEMLOCK 1-4100

The Most Complete Line of
STEELS and STEEL BUILDING MATERIALS
Made by a Single Producer

REPUBLIC STEEL

See Sweet's Catalog File or write us for full information.

REPUBLIC STEEL CORPORATION
GENERAL OFFICES: CLEVELAND, OHIO

DENVER, COLORADO . . . . CONTINENTAL OIL BUILDING
LOS ANGELES, CALIF. . . GENERAL PETROLEUM BUILDING
SAN FRANCISCO, CALIFORNIA . . . . RIALTO BUILDING
SEATTLE, WASH. . . . . WHITE-HENRY-STUART BUILDING

PACIFIC MANUFACTURING CO.

High Class Interior Finish Quality Millwork

16 Beale St., San Francisco
GArfield 1-7755

2115 "J" Street — Sacramento
GIlbert 2-7633

3345 Leonis Blvd. — Los Angeles
LUdlow 5-1211

2610 The Alameda — Santa Clara
AXminster 6-2040

VERMONT MARBLE COMPANY

DOMESTIC AND IMPORTED MARBLES
GRANITE VENEER

VER-MYEN Serpantine for Laboratory Equipment

6000 THIRD STREET • SAN FRANCISCO 24, CALIF.
Phone: VAlencia 6-5024

3522 COUNCIL STREET • LOS ANGELES 4
Phone: DUnkirk 2-6339

edges of boards in creating special effects for interior wall construction; also gives details of use of sawn lumber paneling, grades, sizes, paneling patterns and even surface textures which are available or may be attained; including herringbone, horizontal, vertical, radial, angle, "round-and-round," board-and-batt, board-and-gap, board-on-board, contrast paneling, and combinations; textures and colors are also covered; designed for layman, builder, craftsman, designer, architect, engineer, and contractor. Free copy write DEPT-A&E, Western Pine Ass'n, 510 Yean Bldg., Portland 4, Oregon.

Horn construction data hand book. New 1959 issue, 112 pages of information on caulking, floor treatments, moisture repellents including admixtures and colors for concrete construction, paints, and form coatings for concrete construction. Free copy write DEPT-A&E, A. C. Horn Co., Inc., 550 Third Street, San Francisco 7, Calif.

How to select a new electrical appliance. New, practical, buyer's guide to help those "confused by the bewildering prices and feature claims in appliance advertising"; outlines the important steps to be considered before making an appliance purchase; fictitious price comparisons, high manufacturers list price as a measure of value, and prior year models; booklet includes special work sheets for tabulation of various makes and models for making factual comparison of each manufacturer's products. Free copy write DEPT-A&E, Kelvinator Division, American Motors Corpn, 14250 Plymouth Rd., Detroit, Mich.

"Making color work for you." A new functional Color Kit (AIA File No. 25A) for architects, designers, builders, and maintenance men, shows how to use color scientifically to promote efficiency through better seeing conditions, avoidance of eye strain, and improved human public relations; includes color specifications for schools, motels, hospitals and industrial plants. Free copy write DEPT-A&E, Colorizer Associates, 345 N. Western Ave., Chicago 12, Ill.

Metal gas vent. New 16-page catalog (AIA File No. 30-D-4) covers construction features, installations, specifications and ordering information on the entire line of Van-Packer Company double wall, air-insulated vent system with interlocking joints; available in oval and round pipe with all necessary fittings to meet any architectural requirement. Free copy write Van-Packer Co. Division of Flintkote, 1232 McKinley Ave., Chicago Heights, Ill.

Review of zinc industry. "A Review of the Zinc Industry in the United States During 1959," a new 16-page booklet, summarizes the production and consumption picture of the zinc industry; detailed tables give comprehensive data covering mine production, imports of slab and ore, production of slab zinc according to grade, consumption of slab zinc by major markets, and worldwide slab zinc consumption in principal nations. Free copy write DEPT-A&E, American Zinc Institute, Inc., 60 E. 42nd St., New York 17.

Engineering vibrator guide. To help contractors determine the proper type of concrete vibrator for use on specific jobs; single sheet shows type of job, size of aggregate, volume of dump, total cubic yards, slump requirements and a variety of other facts along with rough sketch or diagram of job. Dart Engineering department will write recommendations on reverse side and return data to contractor with no charge for service. Free copy write DEPT-A&E, Dart Mfg. Co., 1002 S. Jason St., Denver 23, Colorado.

Sketch book-special fixtures. New catalog (AIA File No. 29-H-5) 64 pages of special faucet fixtures designed to supplement the Chicago Faucet Company's general catalog; shows faucets that range afield from hospitals to prisons, from laboratory sinks to service sinks; detailed dimensions and roughing-in data; of interest to specification writers, plumbing contractors, building superintendents and maintenance engineers. Free copy write DEPT-A&E, Chicago Faucet Co., 2700 N. Pulaski Rd., Chicago 39, Ill.

Packaged centralized control systems. New 4-page bulletin describes and illustrates various custom-engineered control panels which combine a wide range of sequencing, supervising, indicating and power controls for industrial processes, machine automation, and heating applications; describes advantages of centralized control, specific operating or safety requirements, service features and design. Write for free copy DEPT-A&E, Protection Controls, Inc., 6000 N. Legett Ave., Chicago 46, Ill.

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY LeROY CONSTRUCTION SERVICES. 4% SALES TAX ON ALL MATERIALS BUT NOT LABOR. ITEMS IN ITALIC INCLUDE LABOR AND SALES TAX.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor and Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK & MASONRY

COMMON BRICKWORK, Reinforced:
8" walls ..... SF 2.95
12" walls ..... SF 4.15
SELECT COMMON, Reinforced:
8" walls ..... SF 3.05
12" walls ..... SF 4.30
CONCRETE BLOCK, Reinforced:
6" walls ..... SF 1.40
8" walls ..... SF 1.55
12" walls ..... SF 1.90
BRICK VENEER:
4" Selects Common ..... SF 1.65
4" Roman ..... SF 2.50
4" Norman ..... SF 2.40
4" Aggrelite ..... SF 2.40

BRICKWORK & MASONRY

All Prices—F.O.B. Plant.
COMMON BRICK
Common 2½ x 3¾ x 8¼ ..... M 45.00
Select 2½ x 3¾ x 8¼ ..... M 52.00
Clinker 2½ x 3¾ x 8¼ ..... M 48.00
Jumbo 3½ x 3 x 11½ ..... M 90.00
FACE BRICK
Standard ..... M 59.80 - 83.20
Jumbo ..... M 114.40 - 130.00
Roman ..... M 88.40 - 109.20
Normao ..... M 101.40 - 124.80
Brik Blox (6") ..... M 202.80
(8") ..... M 239.20
Braile Veneer ..... M 26.00
BUILDING TILE
8 x 5½ x 12 inches ..... M 165.78
6 x 5½ x 12 inches ..... M 128.96
HOLLOW TILE
12 x 12 x 3 inches ..... M 163.12
12 x 12 x 4 inches ..... M 184.18
12 x 12 x 6 inches ..... M 244.71
MANTEL FIRE BRICK
2½ x 9½ x 4½ inches ..... M 140.40
GLAZED STRUCTURAL UNITS
2 x 6 x 12 Furring ..... SF .90
4 x 6 x 12 Furring ..... SF 1.20
6 x 6 x 12 Furring ..... SF 1.50
4 x 6 x 12 Partition ..... SF 1.60
Add for color ..... SF .20
CONCRETE BLOCKS
4 x 8 x 16 inches ..... EA .22
6 x 8 x 16 inches ..... EA .265
8 x 8 x 16 inches ..... EA .30
12 x 8 x 16 inches ..... EA .435
Colored Add ..... EA .02
AGGREGATE—Haydite or Basalite
All sizes in bulk ..... CY 6.24

BUILDING PAPERS & FELTS

1 ply per 1000 ft. roll 3.95
2 ply per 1000 ft. roll 6.03
3 ply per 1000 ft. roll 8.22
Sisalkraft, reinf. 500 ft. roll 7.54
SHEATHING PAPERS:
Asphalt sheathing, 15-lb. roll 2.40
30-lb. roll 3.37
Dampcourse, 216-ft. roll 3.05
FELT PAPERS:
Deadening felt, ¾ lb., 50 ft. roll 3.94
Deadening felt, 1 lb., 50 ft. roll 4.60
Asphalt roofing, 15-lb. 2.50
30-lb. 3.50
ROOFING PAPERS:
Standard Grade, Smooth Surface
108 ft. roll, Light, 45 lb. 2.26
Medium 55 lb. 2.64
Heavy 65 lb. 3.10
Mineral Surfaced 3.60

CHIMNEYS, PATENT

F.O.B. Warehouse
6" ..... LF 1.45
8" ..... LF 2.05
10" ..... LF 2.85
12" ..... LF 3.45
Rates for 10 - 50 Lin. Ft.

CONCRETE AGGREGATES

	Bunker Per Ton	Del'd Per Ton
Gravel, All Sizes	3.25	4.00
Top Sand	3.45	4.20
Concrete Mix	3.35	4.20
Crushed Rock		
¼" to ¾"	3.30	4.20
¾" to 1½"	3.30	4.20
Roofing Gravel	3.46	4.15
SAND		
Lapis (Nos. 1 & 2)	4.30	5.10
Olympia (Nos. 1 & 2)	3.60	4.15

CEMENT
Common, All brands (Paper sacks)
Small quantities, ... Per Sack 1.35
Large quantities, ... Per bbl. 4.25
Trinity White & Mendusa White ..... Per Sack 4.00
CONCRETE MIX
6 sacks in 5-yd. loads ..... Per yard 13.40
CURING COMPOUND, Clear
5 gal drums ..... Per Gal. 1.46

CARPENTRY & MILLWORK

Hardware not included
FRAMING:
Floors ..... BM .20 - .25
Walls ..... BM .25 - .30
Ceilings ..... BM .18 - .22
Roofs ..... BM .22 - .27
Furring & Blocking ..... BM .30 - .50
SHEATHING:
1 x 8 straight ..... BM .20 - .25
1 x 8 diagonal ..... BM .23 - .28
5/16" Flyscore ..... SF .16 - .20
⅜" Plywood ..... SF .25 - .30
SIDING:
1 x 8 Bevel ..... BM .35 - .40
1 x 4 V-Rustic ..... BM .40 - .45
EXTERIOR TRIM:
Fascia and Molds ..... BM .40 - .50
Bolted Framing—Add 50%
ENTRANCE DOORS & FRAMES:
Singles ..... 60.00 & Up
Doubles ..... 100.00 & Up
INTERIOR DOORS & FRAMES:
Singles ..... 35.00 & Up
Pocket Sliding ..... 45.00 & Up
Closet Sliding (Pr.) ..... 50.00 & Up
WINDOWS:
D/H Sash & Frames ..... SF 1.75 & Up
Casement Sash & Frames ..... SF 1.90 & Up
SHELVING:
1 x 12 S4S ..... BM .30 - .50
¾" Plywood ..... SF .40 - .60
STAIRS:
Oak steps D.F. Risers
Under 36" wide ..... Riser 12.00
Under 60" wide ..... Riser 17.00
Newel posts and rail extra
WOOD CASES & CABINETS:
D.F. Wall Hung ..... LF 13.00 - 18.00
D.F. Counters ..... LF 15.00 - 20.00

DAMPPROOFING & WATERPROOFING

MEMBRANE:
1 layer 50 lb. felt ..... SQ. 9.00
4 layers Dampcourse ..... SQ. 13.00
Hot coat walls ..... SQ. 6.00
Tricoat added to concrete ..... CY 1.00
Anti-Hydro added to concrete ..... CY 1.50

ELECTRIC WIRING

Per Outlet:
Knob & Tube ..... EA 9.00
Armor ..... EA 16.00
Conduit ..... EA 20.00
110 V Circuit ..... EA 25.00
220 V Circuit ..... EA 95.00

ELEVATORS & ESCALATORS

Prices vary according to capacity, speed and type. Consult Elevator Companies.

Slow speed apartment house elevator including doors and trim, about $5000.00 per floor.

EXCAVATION

MACHINE WORK in common ground:
Large Basements ..... CY .75 - 1.00
Small Pits ..... CY 1.25 - 1.75
Trenches ..... CY 1.50 - 2.25
HAND WORK in common ground:
Large pits and trenches ..... CY 4.50 - 5.50
Small pits and trimming ..... CY 5.00 - 6.50
Hard Clay & Shale 2 times above rates.
Rock and large boulders 4-6 times above rates.
Shoring, bracing and disposal of water not included.

FLOORS

⅛" Asp. tile, dark colors ..... SF .25 - .30
⅛" Asp. tile, light colors ..... SF .30 - .35
⅛" Rubber tile ..... SF .60 - .70
.080 Vinyl Asbestos Tile ..... SF .40 - .45
.080 Vinyl Tile ..... SF .85 - .95
Lino, Standard Gauge ..... SY 3.75 - 4.25
Lino, Battleship ..... SY 5.25 - 5.75
4" Rubber Base, Black ..... LF .35 - .40
Rubber Stair Nosing ..... LF 1.00 - 1.75
Above rates based on quantities of 1000 - 5000 SF per job.

HARDWOOD FLOORS

Select Oak, filled, sanded, stained and varnished:
5/16" x 2¼" strip ..... SF .45 - .50
5/16" Random Plank ..... SF .50 - .55
25/32" x 2¼" T&G ..... SF .70 - .80
Maple, 2nd Grade and Better, filled, sanded, stained and varnished:
25/32" x 2¼" T&G ..... SF .80 - .95
Wax Finish, add ..... SF .10

HARDWOOD FLOORING

Oak 5/16" x 2" Strip—
Clear ..... M 229.00
Select ..... M 218.00
#1 Common ..... M 203.00
Oak 5/16" Random Plank—
Select & Btr. ..... M 286.00
#1 Common ..... M 244.00
Oak 25/32" x 2¼" T&G—
Select ..... M 260.00
#1 Common ..... M 203.00
Maple 25/32" x 2¼" T&G—
#1 Grade ..... M 317.00
#2 Grade ..... M 281.00
#3 Grade ..... M 208.00
Nails—1" Floor Brads ..... KEG 17.20

GLASS & GLAZING

S.S.B. Clear ..... SF .48
D.S.B. Clear ..... SF .78
Crystal ..... SF .92
¼" Plate ..... SF 2.17
⅛" Obscure ..... SF .68
⅛" Heat Absorbing ..... SF 1.12
¼" Tempered Plate ..... SF 4.38
½" Tempered Plate ..... SF 7.84
¼" Wire Plate, Clear ..... SF 3.65
¼" Wire Plate, Rough ..... SF 1.08

GLASS—CUT TO SIZE

F.O.B. Warehouse
S.S.B. Clear, Av. 6 SF ..... SF .34
D.S.B. Clear, Av. 10 SF ..... SF .56
Crystal, Av. 35-SF ..... SF .65
¼" Polished Plate, Av. 100 SF ..... SF 1.55
⅛" Obscure, Av. 10 SF ..... SF .49
⅛" Ribbed, Av. 10 SF ..... SF .49
⅛" Rough, Av. 10 SF ..... SF .49
¼" Wire Plate, Clear, Av. 40 SF ..... SF 2.61
¼" Wire Plate, Rough, Av. 40 SF ..... SF .77
⅛" Heat Absorbing, Av. 10 SF ..... SF .80
¼" Tempered Plate, Av. 50 SF ..... SF 3.60
½" Tempered Plate, Av. 50 SF ..... SF 6.88
Glazing—Approx. 40-50% of Glass
Glass Blocks—
6" ..... .57
8" ..... .92
12" 2.39

HEATING

FURNACES—Gas Fired—Av. Job:
FLOOR FURNACE:
25,000 BTU ..... 100.00 - 125.00
35,000 BTU ..... 107.00 - 135.00
45,000 BTU ..... 115.00 - 150.00
AUTOMATIC CONTROL:
Add ..... 25.00 - 35.00

HEATING—Cont'd

DUAL WALL FURNACE:
- *25,000 BTU* ..... *110.00 - 125.00*
- *35,000 BTU* ..... *125.00 - 145.00*
- *50,000 BTU* ..... *150.00 - 180.00*

AUTOMATIC CONTROL:
- *Add* ..... *25.00 - 35.00*

GRAVITY FURNACE:
- *75,000 BTU* ..... *375.00 - 450.00*
- *85,000 BTU* ..... *425.00 - 525.00*
- *95,000 BTU* ..... *475.00 - 600.00*

FORCED AIR FURNACE:
- *Add* ..... *75.00 - 125.00*

AUTOMATIC CONTROL:
- *Add* ..... *15.00 - 25.00*

HEAT REGISTERS:
- *Outlet* ..... *7.50 - 15.00*

INSULATION & WALLBOARD

F.O.B. Warehouse

ROCKWOOL Insulation—
- 2" Semi-thick ..... Per M SF 60.60
- 3 5/8" Full Thick ..... Per M SF 77.40

COTTON Insulation
- 1" Full Thick ..... Per M SF 43.26

SOFTBOARDS—Wood Fiber—
- 1/2" thick ..... Per M SF 84.00
- 1 1/2" thick ..... Per M SF 275.00
- 2" thick ..... Per M SF 385.00

ALUMINUM Insulation—
- 80# Kraft paper with alum. foil
- 1 side only ..... Per M SF 18.30
- 2 sides ..... Per M SF 31.00

GYPSUM Wallboard—
- 3/8" thick ..... Per M SF 49.50
- 1/2" thick ..... Per M SF 54.50
- 5/8" thick ..... Per M SF 83.00
- 3/8" Gyplap ..... Per M SF 85.00

HARDBOARDS—Wood Fiber—
- 1/8" thick, Sheathing ..... Per M SF 84.00
- 7/32" thick, Sheathing ..... Per M SF 90.48
- 1/4" thick, Sheathing ..... Per M SF 109.20
- 1/8" thick, Tempered ..... Per M SF 108.00
- 7/32" thick, Tempered ..... Per M SF 186.00
- 1/4" thick, Tempered ..... Per M SF 194.48

CEMENT Asbestos Board—
- 1/8" C.A.B. Flat Sheets ..... Per M SF 151.20
- 7/32" C.A.B. Flat Sheets ..... Per M SF 208.80
- 1/4" C.A.B. Flat Sheets ..... Per M SF 270.01

LATH & PLASTER

- Diamond 3.40 copper bearing ..... SY .56
- Ribbed 3.40 copper bearing ..... SY .62
- 3/8" rock lath ..... SY .36
- 1 1/2" Standard Chaonel ..... LF .062
- 3/4" Standard Cbaonel ..... LF .045
- 3 1/4" steel studs ..... LF .092
- 4" steel studs ..... LF .107
- Stud shoes ..... EA .028
- Hardwall, Browoing ..... Sack 1.45
- Hardwall, Finish ..... Sack 1.70
- Stucco ..... Sack 2.50

LATH & PLASTERWORK

CHANNEL FURRING:
- *Suspended Ceilings* ..... *SY 2.20 - 2.50*
- *Walls* ..... *SY 2.30 - 2.60*

METAL STUD PARTITIONS:
- *3 1/4" Studs* ..... *SY 1.70 - 2.00*
- *4" Studs* ..... *SY 1.95 - 2.25*
- *Over 10'0 high, add* ..... *SY .20 - .30*

3.40 METAL LATH AND PLASTER:
- *Ceilings* ..... *SY 3.60 - 4.00*
- *Walls* ..... *SY 3.75 - 4.15*

KEENE'S CEMENT FINISH:
- *Add* ..... *SY .40 - .60*

ROCK LATH & PLASTER:
- *Ceilings* ..... *SY 2.50 - 2.80*
- *Walls* ..... *SY 2.60 - 2.90*

WIRE MESH AND 1/8" STUCCO:
- *Walls* ..... *SY 3.60 - 4.10*

STUCCO ON CONCRETE:
- *Walls* ..... *SY 2.30 - 2.80*

METAL ACCESSORIES ..... LF .20 - .50

LINOLEUM

- Lino. Standard Gauge ..... SY 2.65 - 2.85
- Lino. Battlesbip ..... SY 2.95 - 3.11
- 1/8" Asp. tile, Dark ..... SF .10 - .11
- 1/8" Asp. tile, Light ..... SF .14 - .16
- 1/8" Rubber Tile ..... SF .40 - .44
- .080 Vinyl tile ..... SF .20 - .21
- .080 Vinyl Asb. tile ..... SF .18 - .19
- 1/8" Vinyl tile ..... SF .78 - .82
- 4" Base, Dark ..... LF .15 - .16
- 4" Base, Light ..... LF .24 - .26
- Rubber Nosing ..... LF .60 - 1.30
- Lino Paste ..... GAL .75 - .90

Above rates based oo quaotities of 1000-5000 SF per job.

LUMBER

DOUGLAS FIR:	M.B.M.
#1 2x4—2x10	88.00 - 92.00
#2 2x4—2x10	85.00 - 90.00
#3 2x4—2x10	68.00 - 74.00
#4 2x4—2x10	64.00 - 72.00
Clear, Air Dried	180.00 - 210.00
Clear, Kiln Dried	210.00 - 240.00
REDWOOD:	
Foundation Grade	120.00 - 130.00
Coostruction Heart	110.00 - 120.00
A Grade	180.00 - 210.00
Clear Heart	190.00 - 220.00
D.F. PLYWOOD	M.S.F.
1/4" AB	95.00 - 105.00
1/4" AD	90.00 - 95.00
1/4" Ext. Waterproof	115.00 - 125.00
3/8" AB	130.00 - 145.00
3/8" AD	115.00 - 125.00
3/8" CD	70.00 - 85.00
1/2" AB	170.00 - 185.00
1/2" AD	110.00 - 115.00
1/2" CD	
5/8" AB	185.00 - 200.00
5/8" AD	165.00 - 180.00
5/8" CD	115.00 - 125.00
3/4" AB	210.00 - 230.00
3/4" AD	195.00 - 210.00
3/4" CD	125.00 - 140.00
3/8" Plyform	160.00 - 170.00
SHINGLES:	Square
Cedar #1	14 00 - 15.50
Cedar #2	11.50 - 12.50
SHAKES	
CEDAR	
1/2 to 3/4" Butt	17.50 - 18.50
3/4 to 1 1/4" Butt	18.50 - 19.50
REDWOOD	
3/4 to 1 1/4" Butt	21.00 - 24.00

MILLWORK

All Prices F.O.B. Mill

D.F. CLEAR, AIR DRIED:		
S4S	MBM	220.00 - 250.00
D.F. CLEAR, KILN DRIED:		
S4S	MBM	225.00 - 275.00
DOOR FRAMES & TRIM:		
Residential Entrance		17.00 & up
Interior Room Entrance		7.50 & up
DOORS:		
1 3/8" D.F. Slab, Hollow Core		8.00 & up
1 3/4" D.F. Slab, Solid Core		19.00 & up
1 3/8" Birch Slab, Hollow Core		10.00 & up
1 3/4" Birch Slab, Solid Core		22.00 & up
WINDOW FRAMES:		
D/H Singles	SF	.80
Casement Singles	SF	.90
WOOD SASH:		
D/H in pairs (1 lite)	SF	.45
Casement (1 lite)	SF	.50
WOOD CABINETS:		
3/4" D F. Ply with 1/4" ply backs		
Wall Hung	LF	10.00 - 15.00
Counter	LF	12.00 - 17.00

BIRCH OR MAPLE—Add 25%

PAINT

All Prices F.O.B. Warehouse

Thinners—5-100 gals.	GAL.	.57
Turpentine—5-100 gals.	GAL.	1.58
Linseed Oil, Raw	GAL.	2.51
Linseed Oil, Boiled	GAL.	2.57
Primer-Sealer	GAL.	3.10
Enamel	GAL.	5.45
Enamel Undercoaters	GAL.	5.45
White Lead in Oil	LB.	.35
Red Lead in Oil	LB.	.35
Litharge	LB.	.30

PAINTING

EXTERIOR:		
Stucco Wash 1 ct.	*SY*	*.30*
Stucco Wash 2 cts.	*SY*	*.55*
Lead and Oil 2 cts.	*SY*	*.90*
Lead and Oil 3 cts.	*SY*	*1.30*
INTERIOR:		
Primer Sealer	*SY*	*.40*
Wall Paint, 1 ct.	*SY*	*.50*
Wall Paint, 2 cts.	*SY*	*.95*
Enamel, 1 ct.	*SY*	*.60*
Enamel, 2 cts.	*SY*	*1.10*
Doors and Trim	*EA*	*10.00*
Sash and Trim	*EA*	*12.00*
Base and Molds	*LF*	*.12*

Old Work—Add 15-30%

PLUMBING

Lavatories	*EA*	*100.00 - 150.00*
Toilets	*EA*	*200.00 - 300.00*
Bath Tubs	*EA*	*250.00 - 350.00*
Stall Shower	*EA*	*80.00 - 150.00*
Sinks	*EA*	*125.00 - 175.00*
Laundry Trays	*EA*	*80.00 - 150.00*
Water Heaters	*EA*	*100.00 - 300.00*

Prices based on average residential and commercial work. Special fixtures and excessive piping not included.

ROOFING

STANDARD TAR & GRAVEL	Per Square
4 ply	*14.00 - 18.00*
5 ply	*17.00 - 20.00*
White Gravel Finish—Add	*2.00 - 4.00*
Asph. Compo. Shingles	*16.00 - 20.00*
Cedar Shingles	*20.00 - 24.00*
Cedar Shakes	*26.00 - 30.00*
Redwood Shakes	*28.00 - 34.00*
Clay Tiles	*40.00 - 50.00*

SEWER PIPE

VITRIFIED:
- Standard 4 in ..... LF
- Standard 6 in ..... LF
- Standard 8 in ..... LF
- Standard 12 in ..... LF 1.
- Standard 24 in ..... LF 6.

CLAY DRAIN PIPE:
- Standard 6 in ..... LF
- Standard 8 in ..... LF

Rate for 100 Lin. Ft. F.O.B. Warehouse

STEEL

REINFORCING BARS:
- 1/4" rounds ..... LB .1
- 3/8" rounds ..... LB .1
- 1/2" rounds ..... LB .1
- 5/8" rounds ..... LB .1
- 3/4" rounds ..... LB .1
- 7/8" rounds ..... LB .1
- 1" rounds ..... LB .1

REINFORCING MESH (1050 SF Rolls)
- 6x6 x 10x10 ..... SF .0
- 6x6 x 6x6 ..... SF .0

16 GA. TYING WIRE ..... LB .1

Rates 100-1000 Lbs. F.O.B. Warehouse

STRUCTURAL STEEL

$325.00 and up per ton erected when out of m
$350.00 and up per ton erected when out of sta

SHEET METAL

ROOF FLASHINGS:
- *18 ga. Galv. Steel* ..... *SF .60 - 1*
- *22 ga. Galv. Steel* ..... *SF .50 -*
- *26 ga. Galv. Steel* ..... *SF .40 -*
- *18 ga. Aluminum* ..... *SF 1.00 - 1*
- *22 ga. Aluminum* ..... *SF .80 - 1*
- *26 ga. Aluminum* ..... *SF .60 - 1*
- *24 oz. Copper* ..... *SF 1.90 - 2*
- *20 oz. Copper* ..... *SF 1.70 - 2*
- *16 oz. Copper* ..... *SF 1.50 - 2*
- *26 ga. Galv. Steel*
- *4" o.g. gutter* ..... *LF .90 - 1*
- *Mitres and Drops* ..... *EA 2.00 - 4*
- *22 ga. Galv. Louvres* ..... *SF 2.50 - 3*
- *20 oz. Copper Louvres* ..... *SF 3.00 - 4*

TILE WORK

CERAMIC TILE, Stock colors:
- *Floors* ..... *SF 1.95 - 2*
- *Walls* ..... *SF 2.05 - 2*
- *Coved Base* ..... *LF 1.05 - 1*

QUARRY TILE:
- *6" x 6" x 1/2" Floors* ..... *SF 1.60 - 2*
- *9" x 9" x 3/4" Floors* ..... *SF 1.75 - 2*
- *Treads and risers* ..... *LF 3.00 - 4*
- *Coved Base* ..... *LF .90 - 1*

Mosaic Tile — Rates vary with design and col
Each job should be priced from Manufacturer.

TERRAZZO & MARBLE

- *Terrazzo Floors* ..... *SF 2.00 - 2*
- *Cond. Terr. Floors* ..... *SF 2.20 - 2*
- *Precast treads and risers* ..... *LF 3.50 - 4*
- *Precast landing slabs* ..... *SF 3.00 - 4*

TILE

CERAMIC:

F.O.B. Warehouse
- 4 1/4" x 4 1/4" glazed ..... SF
- 4 1/4" x 4 1/4" hard glazed ..... SF
- Random unglazed ..... SF
- 6" x 2" cap ..... EA
- 6" coved base ..... EA
- 1/4" round bead ..... LF

QUARRY:
- 6 x 6 x 1/2" Red ..... SF
- 6 x 6 x 3/4" Red ..... SF
- 9 x 9 x 3/4" Red ..... SF
- 6 x 6" coved base ..... EA
- White Cement Grout ..... Per 100 Lbs. 6

VENETIAN BLINDS

- Residential ..... SF .40 &
- Commercial ..... SF .45 &

WINDOWS

STEEL SASH:
- Under 10 SF ..... SF 2.50 &
- Under 15 SF ..... SF 2.00 &
- Under 20 SF ..... SF 1.50 &
- Under 30 SF ..... SF 1.00 &

ALUMINUM SASH:
- Under 10 SF ..... SF 2.75 &
- Under 15 SF ..... SF 2.25 &
- Under 20 SF ..... SF 1.75 &
- Under 30 SF ..... SF 1.25 &

Above rates are for standard sections and stock s
F.O.B. Warehouse

CONSTRUCTION INDUSTRY WAGE RATES

Table 1. The rates are the union hourly wage rates established by collective bargaining as of January 2, 1959, as reported by reliable sources.

TABLE 1—UNION HOURLY WAGE RATES, CONSTRUCTION INDUSTRY, CALIFORNIA

Following are the hourly rates of compensation established by collective bargaining, reported as of January 2, 1959 or later

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKER	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85
BOILERMAKER	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675
BRICKLAYER	3.95	3.75	3.75	3.75	3.80	3.75	3.875	3.95	3.80	3.90	3.75	3.80	3.85
BRICKLAYER HODCARRIER	3.15	3.15	3.15	2.90	3.10	2.90	3.00	3.10	2.75	2.75	2.75	2.75	2.75
CARPENTER	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
CEMENT MASON	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.40	3.40	3.40	3.40	3.15
ELECTRICIAN	4.061	4.061	4.061		4.061	3.50	4.16	3.666[A]	3.90	4.15	4.05	3 90	3.70
GLAZIER	3.215	3.215	3.215	3.215	3.215	3.215	3.24	3.215	3.135	3.135	3.135	3.135	3.135
IRON WORKER													
ORNAMENTAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
REINFORCING	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
STRUCTURAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
LABORER, GENERAL OR CONSTRUCTION	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685
LATHER	3.4375	3.84	3.84	3.45	3.60[B]	3.40[C]	3.60[D]	3.50[E]	3.9375		3.725	3.625[F]	
OPERATING ENGINEER													
Concrete mixer (up to 1 yard)	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Concrete mixer operator—Skip Type	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.17	3.17	3.17	3.17	3.17
Elevator Hoist Operator									3.19	3.19	3.19	3.19	3.19
Material Hoist (1 drum)	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19					
Tractor Operator	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.71	3.71	3.71	3.71	3.71
PAINTER													
Brush	3.20	3.25	3.20	3.13	3.325	3.175	3.35	3.20	3.36	3.25	3.19	3.25	3.10
Spray	3.20	3.60	3.20	3.38	3.575	3.325	3.60	3.20	3.61	3.50	3.74	3.80	3.35
PILEDRIVERMAN	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505
PLASTERER	3.69	3.545	3.545	3.35	3.60[B]	3.55[C]	3.58	3 50	4.00	4.00	3.725	3.9375	
PLASTERER HODCARRIER	3.25	3.42	3.42	3.10	3.10	3.00[C]	3.20	3.15	3.6875	3.5625	3.475	3.50	3.6875
PLUMBER	3.67		3.935[I]	3.80[J]	3.925	3 80[J]	3.85	3.80	3.80	3.80	3.80	3.80	3.80
ROOFER	3.35	3.35	3.35	3.20	3 25	3.35	3.60	3.10[K]	3.35	3.25	3.10	3.30	3.775
SHEET METAL WORKER	3.675	3.675	3.675	3.675	3.675	3.695	3.675	3.685	3.70	3.70	3.65	3 45	3.10
STEAMFITTER	3.67	3.96	3.96	3.80[J]	3.70	3.80[J]	3.60	3.675	3.80	3.80	3.80	3.80	3.775
TRUCK DRIVER—Dump Trucks under 4 yards	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.83	2.83	2.83	2.83	2.83
TILE SETTER	3.30	3.30	3.30	3.30	3.30	3.30	3.50	3.30	3.70	3.60	3.60	3.60	

[A] Includes 4% vacation allowance.
[B] Includes 5c hour for industry promotion and 5c hour for vacation fund.
[C] ½% withheld for industry promotion.
[D] 1½c withheld for industry promotion.
[E] Includes 5c hour for industry promotion and 5c hour for vacation fund. Hourly rate for part of county adjacent to Sacramento County is $3.60.
[F] Northern part of county: $3.75.
[I] Includes 30c hour for vacation pay.
[J] Includes 15c hour which local union may elect to use for vacation purposes.
[K] Includes 10c hour for vacation fund.
[L] Includes 10c hour savings fund wage.

CONSTRUCTION INDUSTRY WAGE RATES — TABLE 2

Employer Contributions to Health and Welfare, Pension, Vacation and Other Funds
California Union Contracts, Construction Industry

(Revised March, 1957)

CRAFT	San Francisco	Fresno	Sacramento	San Joaquin	Santa Clara	Los Angeles	San Bernardino	San Diego
ASBESTOS WORKER	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W	.10 W	.10 W
BRICKLAYER	.15 W .14 P .05 hr. V		.15 W .10 P		.15 W			
BRICKLAYER HODCARRIER	.10 W .10 P .10 V	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
CARPENTER	.10 W .10 hr. V	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
CEMENT MASON	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
ELECTRICAL WORKER	.10 W 1% P 4% V	.10 W 1% P 4% V	.075 W 1% P	.075 W 1% P 4% V	1% P	1% P	1% P	.10 W 1% P
GLAZIER	.075 W .085 V	.075 W 40 hr. V	.075 W .05 V	.075 W .05 V	.075 W .085 V	.075 W 40 hr. V	.075 W 40 hr. V	.075 W 40 hr. V
IRONWORKER: REINFORCING	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
STRUCTURAL	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
LABORER, GENERAL	.10 W	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
LATHER	.60 day W .70 day V		.10 W	.10 W	.075 W .05 V	.90 day W	.70 day W	.10 W
OPERATING ENGINEER								
TRACTOR OPERATOR (MIN.)	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
POWER SHOVEL OP. (MIN.)	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
PAINTER, BRUSH	.095 W	.08 W	.075 W	.10 W	.095 W .07 V	.085 W	.08 W	.09 W
PLASTERER	.10 W .10 V	.10 W	.10 W	.10 W	.10 W .15 V	.10 W	.90 day W	.10 W
PLUMBER	.10 W .10 V	.15 W .10 P	.10 W .10 P .125 V	.10 W	.10 W .10 P .125 V	.10 W	.90 day W	.10 W
ROOFER	.10 W .10 V	.10 W	.10 W .10 V	.10 W	.075 W .10 V	.085 W	.10 W	.075 W
SHEET METAL WORKER	.075 W 4% V	.075 W 7 day V	.075 W .10 V	.075 W .12 V	.075 W 4% V	.085 W .10 V	.085 W .10 V	.085 W 5 day V
TILE SETTER	.075 W .09 V				.075 W .09 V	.025 W .06 V		

ATTENTION: The above tabulation has been prepared and compiled from the available data reported by building trades councils, union locals, contrac organizations and other reliable sources. The table was prepared from incomplete data; where no employer contributions are specified, it does not necessa mean that none are required by the union contract.

The type of supplement is indicated by the following symbols: W—Health and Welfare; P—Pensions; V—Vacations; A—Apprentice training fund; Adm—Adm stration fund; JIB—Joint Industry Board; Prom—Promotion fund.

CLASSIFIED ADVERTISING

RATE: 20c PER WORD . . . CASH WITH ORDER — MINIMUM $5.00

BUILDERS! You can make more money; get information you need before it is published elsewhere; Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

STRUCTURAL DESIGNER, MSCE, available. Experience: planning, administration, economical investigations, design, supervision, inspection, wide variety projects. Specialties: prestressed, shell, and complex structures. For resume: Box 532, Architect & Engineer.

WOOD CARVING, Furniture finishing and Design: Theodore H. Peterson, 10 California Ave., San Rafael. Phone GL 3-7335.

ARCHITECT AND PLANNER with twenty-five years' experience in U.S.A., Europe and Canada in all classes of work seeks connection in California. Own practice for nine years. Write Box 533, The Architect and Engineer Inc., 68 Post St., San Francisco.

ARCHITECTURAL AND STRUCTURAL DESIGNERS AND DRAFTSMEN NEEDED: Permanent employment, modern air conditioned office. Apply Kenny & Cullimore, 2 Niles Street, Bakersfield, California, phone FAirview 7-0256.

WRITING SERVICE — Letters, Applications, Resumes, Manuals. Editing. Ghost Writing. FILECO, 1456 Jones St., San Francisco. Tel. OR 3-6872.

INTERIOR DECORATION HOME STUDY Announcing new home study course in I terior Decoration. For professional or pe sonal use. Fine field for men and wome Practical basic training. Approved supervis method. Low tuition. Easy payments. Fr Booklet. Chicago School of Interior Deco tion, 835 Diversey Parkway, Dept. 92 Chicago 14.

PERMANENT POSITION REQUIRED: S pervisor or foreman — Architectural Alum num (Store Fronts) — Porcelain Enamel — E perienced ten years, Three years, Mecha cal Engineering, three years Civil Engine ing—Field Work. Write Box No. 534 TH ARCHITECT AND ENGINEER, INC., Post St., San Francisco, Calif.

QUICK REFERENCE
ESTIMATOR'S DIRECTORY
Building and Construction Materials

ACOUSTICAL ENGINEERS
L. D. REEDER CO.
San Francisco: 1255 Sansome St., DO 2-5050
Sacramento: 3026 V St., GL 7-3505

AIR CONDITIONING
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
GILMORE AIR CONDITIONING SERVICE
San Francisco: 1617 Harrison St., UN 1-2000
KAEMPER & BARRETT
San Francisco: 233 Industrial St., JU 6-6200
LINFORD AIR & REFRIGERATION CO.
Oakland: 174-12th St., TW 3-6521
JAMES A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

ALUMINUM BLDG. PRODUCTS
MICHEL & PFEFFER IRON WORKS (Wrought Iron)
So. San Francisco: 212 Shaw Road, PLaza 5-8983
REYNOLDS METALS CO.
San Francisco: 3201 Third St., MI 7-2990
UNIVERSAL WINDOW CO.
Berkeley: 950 Parker St., TH 1-1600

ARCHITECTURAL PORCELAIN ENAMEL
CALIFORNIA METAL ENAMELING CO.
Los Angeles: 6904 E. Slauson, RA 3-6351
San Francisco: Continental Bldg. Products Co., 178 Fremont St.
Portland: Portland Wire & Iron Works, 4644 S.E. Seventeenth Ave.
Seattle: Foster-Bray Co., 2412 1st Ave. So.
Spokane: Bernhard Schafer, Inc., West 34, 2nd Ave.
Salt Lake City: S. A. Roberts & Co., 109 W. 2nd So.
Dallas: Offenhauser Co., 2201 Telephone Rd.
El Paso: Architectural Products Co., 506 E. Yandell Blvd.
Phoenix: Haskell-Thomas Co., 3808 No. Central
San Diego: Maloney Specialties, Inc., 823 W. Laurel St.
Boise: Intermountain Glass Co., 1417 Main St.

ARCHITECTURAL & AERIAL PHOTOGRAPHS
FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

ARCHITECTURAL VENEER
Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., DL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle 99: 945 Elliott Ave., West, GA 0330
Spokane: 1102 N. Monroe St., BR 3259
KRAFTILE COMPANY
Niles, Calif., Niles 3611

Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601, Franklin Building
Pasadena 8: P. O. Box 186, East Pasadena Station

Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

BANKS - FINANCING
CROCKER-ANGLO NATIONAL BANK
San Francisco: 13 Offices

BLINDS
PARAMOUNT VENETIAN BLIND CO.
San Francisco: 5929 Mission St., JU 5-2436

BRASS PRODUCTS
GREENBERG'S, M. SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK
Face Brick
GLADDING McBEAN & CO.
San Francisco: Harrison at 9th, UN 1-7400
KRAFTILE CO.
Niles, Calif., Niles 3611
UNITED MATERIALS & RICHMOND BRICK CO.
Point Richmond, BE 4-5032

BRONZE PRODUCTS
GREENBERG'S M. SONS
San Francisco: 765 Folsom St., EX 2-3143
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Road, PLaza 5-8983
C. E. TOLAND & SON
Oakland: 2635 Peralta St., GL 1-2580

BUILDING HARDWARE
E. M. HUNDLEY HARDWARE CO.
San Francisco: 662 Mission St., YU 2-3322

BUILDING PAPERS & FELTS
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CABINETS & FIXTURES
CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316
THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513
MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815
PARAMOUNT BUILT IN FIXTURE CO.
Oakland: 962 Stanford Ave., OL 3-9911
ROYAL SHOWCASE CO.
San Francisco: 770 McAllister St., JO 7-0311

CEMENT
CALAVERAS CEMENT CO.
San Francisco: 315 Montgomery St.
DO 2-4224, Enterprise 1-2315
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CONCRETE AGGREGATES
Ready Mixed Concrete
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
RHODES-JAMIESON LTD.
Oakland: 333-23rd Ave., KE 3-5225

CONCRETE ACCESSORIES
Screed Materials
C. & H. SPECIALTIES CO.
Berkeley: 909 Camelia St., LA 4-5358

CONCRETE BLOCKS
BASALT ROCK CO.
Napa, Calif.

CONCRETE COLORS—HARDENERS
CONRAD SOVIG CO.
875 Bryant St., HE 1-1345

CONSTRUCTION SERVICES
LE ROY CONSTRUCTION SERVICES
San Francisco, 143 Third St., SU 1-8914

DECKS—ROOF
UNITED STATES GYPSUM CO.
2322 W. 3rd St., Los Angeles 54, Calif.
300 W. Adams St., Chicago 6, Ill.

DOORS
THE BILCO COMPANY
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Papovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

Electric Doors
RDLY-DOOR SALES CO.
San Francisco, 5976 Mission St., PL 5-5089

Folding Doors
WALTER D. BATES & ASSOCIATES
San Francisco, 693 Mission St., GA 1-6971

Hardwood Doors
BELLWOOD CO. OF CALIF.
Orange, Calif., 533 W. Collins Ave.

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-7108
T. M. COBB CO.
Los Angeles & San Diego
HOGAN LUMBER CO.
Oakland: 700 - 6th Ave.
HOUSTON SASH & DOOR
Houston, Texas
SOUTHWESTERN SASH & DOOR
Phoenix, Tucson, Arizona
El Paso, Texas
WESTERN PINE SUPPLY CO.
Emeryville: 5760 Shellmound St.
GEO. C. VAUGHAN & SONS
San Antonio & Houston, Texas

DRAFTING ROOM EQUIPMENT
GENERAL FIREPROOFING CO.
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070

DRINKING FOUNTAINS
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341

ELECTRICAL CONTRACTORS
COOPMAN ELECTRIC CO.
San Francisco: 85 - 14th St., MA 1-4438

ELECTRICAL CONTRACTORS (cont'd)

LEMOGE ELECTRIC CO.
San Francisco: 212 Clara St., DO 2-6010

LYNCH ELECTRIC CO.
San Francisco: 937 McAllister St., WI 5158

PACIFIC ELECTRIC & MECHANICAL CO.
San Francisco: Gough & Fell Sts., HE 1-5904

ELECTRIC HEATERS

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211

FIRE ESCAPES

MICHEL & PFEFFER IRON WORKS
South San Francisco: 212 Shaw Road, PLaza 5-8983

FIRE PROTECTION EQUIPMENT

FIRE PROTECTION PRODUCTS CO.
San Francisco: 1101-16th St., UN 1-2420

BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

FLOORS

Floor Tile

GLADDING McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-744
Los Angeles: 2901 Las Feliz Bldg., OL 2121

KRAFTILE CO.
Niles, Calif., Niles 3611

Resilient Floors

PETERSON-COBBY CO.
San Francisco: 218 Clara St., EX 2-8714

TURNER RESILIENT FLOORS CO.
San Francisco: 2280 Shafter Ave., AT 2-7720

FLOOR DRAINS

JOSAM PACIFIC COMPANY
San Francisco: 765 Folsom St., EX 2-3142

GAS VENTS

WM. WALLACE CO.
Belmont, Calif.

GENERAL CONTRACTORS

BARRETT CONSTRUCTION CO.
San Francisco: 1800 Evans Ave., MI 7-9700

JOSEPH BETTANCOURT
South San Francisco: 125 So. Linden St., PL 5-9185

DINWIDDIE CONSTRUCTION CO.
San Francisco: Crocker Bldg., YU 6-2718

O. L. FAULL CONSTRUCTION CO.
Santa Rosa: 1236 Cleveland Ave.

HAAS & HAYNIE
San Francisco: 275 Pine St., DO 2-0678

HENDERSON CONSTRUCTION CO.
San Francisco: 33 Ritch St., GA 1-0856

JACKS & IRVINE
San Francisco: 620 Market St., YU 6-0511

RALPH LARSEN & SON
San Francisco: 64 So. Park, YU 2-5682

LINDGREN & SWINERTON
San Francisco: 200 Bush St., GA 1-2980

MacDONALD, YOUNG & NELSON
Oakland: 8907 Railroad Ave.

MATTOCK CONSTRUCTION CO.
San Francisco: 220 Clara St., GA 1-5516

RAPP, CHRISTENSEN & FOSTER
Santa Rosa: 705 Bennett Ave.

STOLTE, INC.
Oakland: 8451 San Leandro Ave., LO 2-4611

SWINERTON & WALBERG
San Francisco: 200 Bush St., GA 1-2980

FURNITURE—INSTITUTIONAL

GENERAL FIREPROOFING CO.
San Francisco: 1025 Howard St., NE 1-7070
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501

HEATING & VENTILATING

ATLAS HEATING & VENT. CO.
San Francisco: 557-4th St., DO 2-0377

E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., OL 2-6000

LOUIS V. KELLER
San Francisco: 289 Tehama St., JU 6-6252

L. J. KRUSE CO.
Oakland: 6247 College Ave., OL 2-8332

JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

SCOTT COMPANY
Oakland: 1919 Market St., GL 1-1937

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211
Los Angeles: 530 W. 7th St., MI 8096

INSULATION WALL BOARD

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

INTERCEPTING DEVICES

JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3142

IRON—ORNAMENTAL

MICHEL & PFEFFER IRON WKS.
So. San Francisco, 212 Shaw Rd., PL 5 8983

LATHING & PLASTERING

ANGELO J. DANERI
San Francisco: 1433 Fairfax Ave., AT 8-1582

K-LATH CORP.
Alhambra: 909 So. Fremont St., Alhambra

A. E. KNOWLES CORP.
San Francisco: 3330 San Bruno Ave., JU 7-2091

G. H. & C. MARTINELLI
San Francisco: 174 Shotwell St., UN 3 6112

PATRICK J. RUANE
San Francisco: 44 San Jose Ave., MI 7 6414

LIGHTING FIXTURES

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1 8474

LIGHTING & CEILING SYSTEMS

UNITED LIGHTING AND FIXTURE CO.
Oakland: 3120 Chapman St., KE 3 8711

LUMBER

CHRISTENSEN LUMBER CO.
San Francisco: Quint & Evans Ave., VA 4-5832

ART HOGAN LUMBER CO.
San Francisco: 1701 Galvez Ave., ATwater 2-1157

ROLANDO LUMBER CO.
San Francisco: 5th & Berry Sts., SU 1-6901

WEST COAST LUMBERMEN'S ASS'N
Portland 5, Oregon

MARBLE

JOS. MUSTO SONS-KEENAN CO.
San Francisco: 555 No. Point St., GR 4-6365

VERMONT MARBLE CO.
San Francisco: 6000-3rd St., VA 6-5024

MASONRY

BASALT ROCK CO.
Napa, Calif.
San Francisco: 260 Kearney St., GA 1-3758

WM. A. RAINEY & SON
San Francisco: 323 Clementina St., SU 1-0072

GEO. W. REED CO.
San Francisco: 1390 So. Van Ness Ave., AT 2-1226

METAL EXTERIOR WALLS

THE KAWNEER CO.
Berkeley: 930 Dwight Way, TH 5-8710

METAL FRAMING

UNISTRUT OF NORTHERN CALIFORNIA
Berkeley: 2547-9th St., TH 1-3031
Enterprise 1-220

METAL GRATING

KLEMP METAL GRATING CORP.
Chicago, Ill.: 6601 So. Melvina St.

METAL LATH—EXPANDED

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

METAL PARTITIONS

THE E. F. HAUSERMAN CO.
San Francisco: 485 Brannan St., YU 2-5477

METAL PRODUCTS

FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100

MILLWORK

CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4 7316

THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513

MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815

PACIFIC MFG. CO.
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, S. C. 607
Los Angeles: 6820 McKinley Ave., TH 4156

SOUTH CITY LUMBER & SUPPLY CO.
So. San Francisco: Railroad & Spruce, PL 5-7095

OFFICE EQUIPMENT

GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

OIL BURNERS

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., GL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia, Pa.: 401 North Broad St.

ORNAMENTAL IRON

MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

PAINTING

R. P. PAOLI & CO.
San Francisco: 2530 Lombard St., WE 1-1632

SINCLAIR PAINT CO.
San Francisco: 2112-15th St., NE 1-2196

D. ZELINSKY & SONS
San Francisco: 165 Groove St., MA 1-7400

PHOTOGRAPHS

Construction Progress

FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

PLASTER

PACIFIC CEMENT & AGGREGATE INC.
San Francisco: 400 Alabama St., KL 2-1616

PLASTIC PRODUCTS

PLASTIC SALES & SERVICE
San Francisco: 409 Bryant St., DO 2-6433

WEST COAST INDUSTRIES
San Francisco: 3150-18th St., MA 1-5657

PLUMBING
BRIGGS MFG. CO.
Warren, Michigan
BROADWAY PLUMBING CO.
San Francisco: 1790 Yosemite Ave., MI 8-4250
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143
LOUIS Y. KELLER
San Francisco: 289 Tehama St., YU 6-6252
JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140
RODONI-BECKER CO., INC.
San Francisco: 455-10th St., MA 1-3662
SCOTT CO.
Oakland: 1919 Market St., GL 1-1937

POST PULLER
HOLLAND MFG. CO.
No. Sacramento: 1202 Dixieanne

PUMPING MACHINERY
SIMONDS MACHINERY CO.
San Francisco: 816 Folsom St., DO 2-6794

ROOFING
ANCHOR ROOFING CO.
San Francisco: 1671 Galvez Ave., VA 4-8140
ALTA ROOFING CO.
San Francisco: 1400 Egbert Ave., MI 7-2173
REGAL ROOFING CO.
San Francisco: 930 Innes Ave., VA 4-3261

ROOF SCUTTLES
THE BILCO CO.
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Popovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

ROOF TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805
SUMMERBELL ROOF STRUCTURES
San Francisco: 420 Market St., EX 7-2796

SAFES
THE HERMANN SAFE CO.
San Francisco: 1699 Market St., UN 1-6644

SEWER PIPE
GLADDING, McBEAN & CO.
San Francisco: 9th & Harrison, UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121

SHEET METAL
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

SOUND EQUIPMENT
STROMBERG-CARLSON CO.
San Francisco: 1805 Rollins Rd., Burlingame, OX 7-3630
Los Angeles: 5414 York Blvd., CL 7-3939

SPRINKLERS
BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

STEEL—STRUCTURAL & REINFORCING
COLUMBIA-GENEVA DIV., U. S. STEEL CORP.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland, Ore.: 2345 N.W. Nicolai, BE 7261
Seattle, Wn.: 1331-3rd Ave. Bldg., MA 1972
Salt Lake City, Utah: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Hayward: Box 3007, LU 1-4451
INDEPENDENT IRON WORKS, INC.
Oakland: 780 Pine St., TE 2-0160
JUDSON PACIFIC MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 New Montgomery St., GA 1-0977
Los Angeles: Edison Bldg.
Seattle: White-Henry Stuart Bldg.
Salt Lake City: Walker Bank Bldg.
Denver: Continental Oil Bldg.

STEEL FORMS
STEELFORM CONTRACTING CO.
San Francisco: 666 Harrison St., DO 2-5582

SWIMMING POOLS
SIERRA MFG. CO.
Walnut Creek, Calif.: 1719 Mt. Diablo Blvd.

SWIMMING POOL FITTINGS
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143

TESTING LABORATORIES (ENGINEERS & CHEMISTS
ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697
ROBERT W. HUNT COMPANY
San Francisco: 500 Iowa, MI 7-0224
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

TILE—CLAY & WALL
GLADDING McBEAN & CO.
San Francisco: 9th & Harrison Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 945 Elliott Ave. West, GA 0330
Spokane: 1102 No. Monroe St., BR 3259
KRAFTILE CO.
Niles, Calif.: Niles 3611
San Francisco: 50 Hawthorne St., DO 2-3780
Los Angeles: 406 So. Main St., MA 7241

TILE—TERRAZZO
NATIONAL TILE & TERAZZO CO.
San Francisco: 198 Mississippi St., UN 1-0273

TIMBER—TREATED
J. H. BAXTER CO.
San Francisco: 200 Bush St., YU 2-0200
Los Angeles: 3450 Wilshire Blvd., DU 8-9591

TIMBER TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805

TRUCKING
PASSETTI TRUCKING CO.
San Francisco: 264 Clementina St., GA 1-5297

UNDERPINNING & SHORING
D. J. & T. SULLIVAN
San Francisco: 1942 Folsom St., MA 1-1545

WALL PAPER
WALLPAPERS, INC.
Oakland: 384 Grand Ave., GL 2-0451

WAREHOUSE AND STORAGE EQUIPMENT AND SHELVING
GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

WATERPROOFING MATERIALS
CONRAD SOVIG CO.
San Francisco: 875 Bryant St., HE 1-1345

WATERSTOPS (P.V.C.)
TECON PRODUCTS, LTD.
Vancouver, B.C.: 681 E. Hastings St.
Seattle: 2 Hanford St.

WINDOW SHADES
SHADES, INC.
San Francisco: 80 Tehama St., DO 2-7092

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

COMMERCIAL BLDG., Marysville, Yuba county. Woodrow Jang, Marysville, owner. Concrete block wall commercial building, long span steel roof joists, aluminum store front, built-up roofing. ARCHITECT: Robert S. Oliver, 916 "F" St., Marysville. GENERAL CONTRACTOR: Lamon Const. Co., 881 Market St., Yuba City.

MOTEL La Fonda Motel, Monterey. Albert Barretto, Jr., Monterey, owner. 1-story wood frame construction—$111,111. ARCHITECT: William D. Concolino, 588 Houston St., Monterey. GENERAL CONTRACTOR: Harold C. Geyer Const., P.O. Box 1190, Monterey.

SAFEWAY STORE REMODEL, Oakland, Alameda county. Safeway Stores, Inc., San Francisco, owner. General interior remodel; plumbing, electrical, painting, paving parking area. ARCHITECT: Arthur Iwata, 2161 Shattuck Ave., Berkeley. GENERAL CONTRACTOR: Eric F. Anderson Const., 219 41st St., Oakland.

CHURCH ADD'N, Walnut Creek, Contra Cost county. Valley Baptist Church, Walnut Creek, owner. Work comprises construction of a wood frame educational wing to the existing building. ARCHITECT: Alfred W. Johnson, 165 Jessie St., San Francisco. GENERAL CONTRACTOR: James L. Peterson, 5504 Pine Hollow Rd., Concord.

MOTEL ADD'N, Winnemucca, Nevada. Joseph Rossi, Winnemucca, owner. Wood frame and concrete basement addition to present motel to provide facilities for Coffee Shop. $107,121. ARCHITECT: Harada & Meu, 575 Mission St., San Francisco. GENERAL CONTRACTOR: Oliver Curutchet, 39 W. Haskl St., Winnemucca, Nev.

BANK BLDG., Mountain View, Santa Clara county. Mt. View Savings & Loan Ass'n, owner. Tilt-up concrete construction, glass end walls—$79,000. ARCHITECT: Hollis Logue, Jr., 275 N. 4th St., San Jose. GENERAL CONTRACTOR: Bridges Const. Co., P. O. Box 966, San Jose.

MILK DEPOT, San Leandro, Alameda county. Milk Depot, Inc., owner. 1-Story concrete block and concrete floors, steel sash, refrigeration area for milk storage; approximately 1500 sq. ft. of area. ARCHITECT: Robert W. Long, 971 Sutter St., San Francisco. GENERAL CONTRACTOR: Able Bldrs., 15308 E. 14th St., San Leandro.

POLICE BLDG., Santa Clara. City of Santa Clara, owner. Civic Center project to provide police administration building with jail facilities and complete modern

COLORLINE
TRADE MARK

MOVABLE PARTITIONS

For the handsomest offices in town — at low cost — choose COLORLINE, the new idea in movable interior partitions. Sturdy, COLORLINE partitions give complete flexibility . . . widest selection of materials . . . unlimited freedom of design.

COLORLINE partitions permit you to arrange space to meet *exact* requirements . . . and to re-arrange, easily and quickly, anytime in the future.

Find out how little it costs to modernize with smart, practical COLORLINE partitions.

Write or call for free illustrated catalog No. 910-A or general metal framing catalog No. 700-A.

UNISTRUT
2547 NINTH STREET, BERKELEY, CALIF.
THornwall 1-3031
ENterprise 1-2204

UNISTRUT COLORLINE PARTITIONS
TRADE MARK

equipment, 1-story; concrete block, concrete foundations, structural steel frame, tile roofing, aluminum sash; approximately 16,000 sq. ft. of area. ARCHITECT: Edw. B. Kress & Associates, 1083 Clay St., Santa Clara. GENERAL CONTRACTOR: E. A. Hathaway Co., 1098 S. 5th St., San Jose.

YACHT HARBOR, Marina, San Francisco. City and County of San Francisco, owner. Work includes closing of existing entrance to the Inner Harbor, and opening new connection between inner and outer harbors; dredging of berth areas, lighting, electrical power, 50 new piles, and miscellaneous floats—$203,631. ARCHITECT: Charles W. Griffiths, City Architect, City Hall, San Francisco. GENERAL CONTRACTOR: Healy-Tibbetts Const., 411 Brannan St., San Francisco.

GYMNASIUM, Hoopa, Humboldt county. Klamath-Trinity Unified School District, Hoopa, owner. Reinforced concrete, slab floors, wood partitions, wood spring flooring, gymnasium building to provide facilities for classrooms, shower and locker rooms, bleachers, toilets—$392,700. ARCHITECT: Gerald D. Matson, 573 "G" St., Eureka. GENERAL CONTRACTOR: H. Barnhart Const., P. O. Box 68, Medford, Oregon.

ELEMENTARY SCHOOL, Cordova Gardens, Folsom, Sacramento county. Folsom Joint Unified School District, owner. Wood frame construction to provide facilities for administration unit, 15 classrooms, 2 kindergartens, storage areas, heating and janitor's rooms, toilets—$409,707. ARCHITECT: Koblik & Fisher, 2203 13th St., Sacramento. GENERAL CONTRACTOR: Arthur Odman, P. O. Box 147, Fair Oaks.

THE C&H CONSTRUCTION STAKE

U. S. PATENT NO. 2835017

For . . .

- Footings
- Curbs
- Sidewalks
- Gutters
- Driveways
- Slabs
- Bracing
- Anchoring
- Screeding
- Floor Slabs
- Ground Slabs
- Tilt-up Slabs

Manufactured by:

C & H SPECIALTIES COMPANY
909 Camelia Street
Berkeley 6, Calif.
LAndscape 4-5358

COURT BLDG. & JAIL, Merced. County of Merced, owner. Stage 1 to include County Court buildings and 1 wing of jail cells; concrete wall construction, poured concrete slabs, typical jail construction—$372,861. ARCHITECT: Paul Shattuck, 1713 "M" St., Merced. GENERAL CONTRACTOR: Harris Const. Co., P. O. Box 109, Fresno.

LAUNDRY ADD'N, State Hospital, Stockton, San Joaquin county. State of California, Public Works Dept., Sacramento, owner. Work comprises the construction of 2 additions to the existing laundry building and numerous alterations throughout the existing building; approximately 8,000 sq. ft. of area. ARCHITECT: Anson Boyd, State Architect, Sacramento. GENERAL CONTRACTOR: H. H. Henning & Son, 1751 Berkeley Ave., Stockton.

CHAPEL UNIT & ADM. BLDG., Walnut Creek, Contra Costa county. St. Luke's Lutheran Church, Walnut Creek, owner. Wood frame construction on concrete slab floors — $65,021. ARCHITECT: Donald Powers Smith, 133 Kearny St., San Francisco. GENERAL CONTRACTOR: James L. Peterson, 5504 Pine Hollow Rd., Concord.

RESEARCH LABORATORY, Salinas, Monterey county. County of Monterey, owner. Work comprises construction of wood frame, concrete slab floor, shingle roof, Agricultural Research building—$13,068. ARCHITECT: Keeble & Rhodes, 135 Webster St., Monterey. GENERAL CONTRACTOR: Clifton B. McCormick, 114 Gardenia Dr., Salinas.

PRODUCE MARKET ADD'N, San Jose, Santa Clara county. Berry Growers Ass'n of California, owner. Construction of an addition to existing warehouse, to provide facilities for produce market; wood frame construction — $99,850. ARCHITECT: Binder & Cortis, 35 W. San Carlos St., San Jose. GENERAL CONTRACTOR: Jangrus & Rosso, 751 N. 16th St., San Jose.

CITY HALL REMODEL, Sonoma. City of Sonoma, owner. Work comprises remodeling of present City Hall building in the city of Sonoma. ARCHITECT: Clarence Felciano, 4010 Montecito, Santa Rosa. GENERAL CONTRACTOR: Christensen & Foster, 705 Bennett Ave., Santa Rosa.

PACKING PLANT OFFICE, Sanger, Fresno county. Ballantine Prodoce Co., Sanger, owner. Construction of a new packing plant office—$124,095. CIVIL ENGINEER: Hugh B. Brewster, 63 Rowell Bldg., Fresno. REFRIGERATION ENGINEER: Stuart B. Smith, 635 Rowe Bldg., Fresno. GENERAL CONTRACTOR: H. E. Graham Co., 1132 Academy St., Sanger.

ELEMENTARY SCHOOL ADD'N, Bel Aire, Tiburon, Marin county. Reed School District, Tiburon, owner. Construction of a wood frame, glued laminated beams, concrete slab on grade, wood siding, built-up roofing; approximately 15,000 sq. ft. of area to provide facilities for 6 classrooms, multi-purpose room, and some site development—$236,205. ARCHITECT: Ma

tin J Rosse, 565 Mission St., San Francisco. ASSOCIATE ARCHITECT: Chas. W. Callister, 83 Beach Rd., Belvedere. GENERAL CONTRACTOR: A. Von Rotz Const., 40 Greenfield Ave., San Anselmo.

ELEMENTARY SCHOOL, Eureka, Roseville, Placer county. Eureka Union School District, Roseville, owner. Work consists of construction of a new Eureka Elementary School building providing facilities for 6 classrooms and a multi-purpose building—$243,000. ARCHITECT: Gordon Stafford, 1024½ "J" St., Sacramento. GENERAL CONTRACTOR: Guth & Schmidt, 2821 "S" St., Sacramento.

DRY CLEANING PLANT, Lodi, San Joaquin county. Guild Dry Cleaners, Lodi, owner. New dry cleaning plant with drive-in facilities — $30,000. ARCHITECT: Mayo, De Wolf & Associates, Exchange Bldg., Stockton. GENERAL CONTRACTOR: T. E. Williamson Co., 1889 W. Rose St., Stockton.

HIGH SCHOOL ADD'N, Central Union High, Fresno. Fresno Union High School Dist., owner. Construction of an agricultural and shop classroom building; light steel frame, steel siding, aluminum roof—$117,060. ARCHITECT: Walter Wagner & Partners, 1830 Van Ness, Fresno. GENERAL CONTRACTOR: Harris Const. Co., P. O. Box 109, Fresno.

POULTRY PROCESSING PLANT, Fresno. Market Wholesale Grocery Co., Los Angeles, owner. 1-Story concrete block construction, approximate 29,000 sq. ft. area—$60,000. ENGINEER: A. G. Schofield, 25 N. Fulton St., Fresno. GENERAL CONTRACTOR: LMT Bldg. Co., 25 N. Fulton St., Fresno.

WAREHOUSE & OFFICE, Fresno. Reliance Paper Co., Fresno, owner. Wood frame and concrete tilt-up construction of new offices and warehouse building—$54,753. ARCHITECT: Robert Stevens, 944 N. Van Ness, Fresno. GENERAL CONTRACTOR: Jack Campbell Const., 2014 E. Howe St., Fresno.

RESIDENCE HALLS, State College, San Jose, Santa Clara county. State of California, Division of Public Works, Sacramento, owner. Construction of six new Residence Halls on the campus of the San Jose State College—$3,302,122. ARCHITECT: Anson Boyd, State Architect, Sacramento. GENERAL CONTRACTOR: Rothschild-Raffin & Weirick, 274 Brannan St., San Francisco.

HIGH SCHOOL ADD'N, Turlock, Stanislaus county. Turlock Joint Union High School District, owner. Wood frame construction of 6 classrooms, boiler room, storage area, commercial classrooms, toilets, addition to the Turlock High School. ARCHITECT: Mayo, De Wolf & Associates, Exchange Bldg., Stockton. GENERAL CONTRACTOR: C. T. Brayton & Sons, P. O. Box 95, Escalon.

FINE ARTS BLDG., University of Nevada, Reno, Nevada. Nevada State Planning Board, Carson City, Owner. Two story and basement; two wings separated by a theater; 2 wings provide facilities for music and silent arts; 300 person capacity theater; classrooms, stage, shop, dressing rooms, related units; reinforced concrete construction with exposed brick walls, curtain walls around art wing—$1,085,098. ARCHITECT: Neutra & Alexander, 2379 Glendale Blvd., Los Angeles. GENERAL P.O. Box 1391, Las Vegas, Nevada.

CHURCH ADD'N, Santa Rosa, Sonoma county. Congregational Church of Santa Rosa, owner. Wood frame, concrete floor, composition roofing, addition to existing Church building to provide facilities for 6 classrooms — $30,500. ARCHITECT: Scott Haymond, 2495 Shattuck Ave., Berkeley. GENERAL CONTRACTOR: C. W. Builders, Healdsburg Center, Healdsburg.

HIGH SCHOOL ADD'N, Castro Valley, Alameda county. Hayward Union High School District, Hayward, owner. Work comprises construction of an addition to the existing High School building to provide facilities for 1-classroom wing, shop and locker room, and additional covered corridors—$338,241. ARCHITECT: Anderson & Simonds, Dusel & Campini, 2800 Park Blvd., Oakland. GENERAL CONTRACTOR: Gaspard Const., 6629 Beck St., Oakland.

WAREHOUSE, Oakdale, Stanislaus county. Hunt Foods, Inc., Fullerton, owner. 1-Story, concrete slab warehouse type building containing 185,000 sq. ft. of area. ARCHITECT: Douglas McClellan & John Fortune, 816 W. 5th St., Los Angeles. GENERAL CONTRACTOR: Associated Construction & Engineering Co., 127 Beacon St., South San Francisco.

SCHOOL ALT'NS, Rio Linda, Sacramento county. Rio Linda School District, owner. Wood frame and brick veneer construction of school facilities to provide 2 new classrooms by removal of existing classrooms—$70,300. ARCHITECT: Cox & Liske, Whitson W. Cox, Architect, 926 "J" St., Sacramento. GENERAL CONTRACTOR: Huth & Schmidt Const., 2821 "S" St., Sacramento.

GYMNASIUM, High School, Sonora, Tuolumne county. Sonora Union High School District, Owner. Some site work: bos garage, electrical system; wood frame and concrete block construction building to provide facilities for new Gymnasium, cafeteria, classroom onit of two standard and 1 dooble size—$508,700. ARCHITECT: Horn & Mortland, 2016 Merced St., Fresno. GENERAL CONTRACTOR: R. F. L. Const. Co., P.O. Box 1623, Fresno.

WAREHOUSE, Reno Nevada. Zellerbach Paper Co., San Francisco, owner. Tilt-up concrete construction of new paper warehouse building; 30,000 sq. ft. of area. ENGINEER: Engineerinog Department Zellerbach Paper Company. GENERAL CONTRACTOR: McKenzie Const. Co., 560 Kietzke, Reno.

RESIDENCE HALL, Santa Rosa, Sonoma county. Santa Rosa Ursaline Corpn., owner. Two story, wood frame and concrete block construction — $294,635. ARCHITECT: J. Clarence Felciano, 4010 Montecito Ave., Santa Rosa. GENERAL CONTRACTOR: Rapp Const. Co., P. O. Box 551, Santa Rosa.

ON EXHIBIT
CONSTRUCTION MATERIALS CENTER
330 Clay Street, San Francisco

REMILLARD-DANDINI Co.
Brick and
Masonry Products
★
400 MONTGOMERY STREET
SAN FRANCISCO, CALIF.

Scott Company
HEATING • PLUMBING
REFRIGERATION
★
San Francisco
Ookland
San Jose
Los Angeles

ARCHITECT
and
ENGINEER
Please enter my subscription lor ..... year..... My check in the amount of $..... Is attached.
1 year $3.00
2 years . . . 5.00
Name.....
City.....
State.....

IN THE NEWS

CONVENTION CENTER PLANS PROGRESS AT DISNEYLAND

Daniel, Mann, Johnson & Mendenhall, Los Angeles, architects, report the Wonder Palace, $15-million convention center to be located near Disneyland, will be larger than originally proposed.

A study of the center's needs has been underway for the last seven months and as a result changes will be made in the auditorium-sports arena which will be enlarged to twice the original size. New plans call for a structure with 126,000 sq. ft., plus 88,000 sq. ft. for an exhibit area. It will have a seating capacity of 6,000, or a dining capacity of 2,500 persons.

In addition to sports events, the auditorium will be used for water shows, theatrical and musical events. The Wonder-Palace Hotel's first phase of construction will have approximately 200 rooms and will be located on a 37-acre site to be developed as an integral part of the convention center.

NEW LIBRARY IS PLANNED FOR MARTINEZ

The architectural firm of Corlett & Spackman, San Francisco, is preparing plans and specifications for construction of a new Library Building in Martinez for the County of Contra Costa.

The new facility will be erected on a 4-acre site in the Pleasant Hill district and will be of structural steel construction with steel roof deck, concrete slab on grade, concrete block and tilt-up concrete walls, and will cost an estimated $100,000.

ALAMEDA'S SOUTH SHORE DEVELOPMENT STARTS FIRST HOUSING

First multi-family units of the Utah Construction Company's large South Shore development in Alameda were started recently when ground was broken for a $1,200,000 garden apartment construction project.

The 100-unit luxury development by Garden Apartments, Ltd., of San Francisco, first of more than 1500 apartment units scheduled for the 400-acre site, is being constructed on land reclaimed from San Francisco bay. More than 800 home sites on lagoon and interior lots and a major regional shopping center are also under development in the project by Utah Construction Company.

First units are expected to be ready for occupancy by late May and completion of the entire project is scheduled for December.

NEW HOSPITAL PROPOSED FOR LIVERMORE

The architectural firm of Stone, Mulloy, Marraccini & Patterson, 536 Mission Street, San Francisco, is preparing preliminary plans for construction of a 1-story Hospital building in Livermore, California for the Valley Memorial Hospital Committee of the Livermore-Pleasanton district.

Facilities will include a main building and wing with provisions for later expansion to a second wing. Estimated cost of the project is $1,000,000.

ARCHITECT SELECTED FOR LIBRARY

The Burlingame Library Board, Burlingame, California, has commissioned architect E. L. Norberg, 407 Occidental Avenue, Burlingame, to design and prepare plans and specifications for construction of an addition to the Burlingame Library.

NEW MOTEL PLANNED FOR RENO, NEVADA

The architectural firm of Lockard & Casazza, 232 West 1st Street, Reno, Nevada, is preparing plans and specifications for construction of a new 42-unit Motel in Reno for owner James T. Daniel.

Work includes demolition of existing structures on site and construction of concrete block and brick Motel unit.

JACK R. RUMMEL NAMED NEW PROJECT DIRECTOR OF ARCHITECTURAL FIRM

Jack R. Rummel has been appointed Project Director of the industrial and military division of Daniel, Mann, Johnson & Mendenhall, Architects & Engineers, Los Angeles, according to a recent announce-

STROMBERG-CARLSON®

SOUND EQUIPMENT

These authorized distributors offer complete specification and planning assistance, installation and guarantee — on famous Stromberg-Carlson sound, public address and intercom systems:

S-C STROMBERG-CARLSON

DISTRICT OFFICES

SAN FRANCISCO
STROMBERG-CARLSON COMPANY
1805 Rollins Road,
Burlingame ..... OXford 7-3630

LOS ANGELES
STROMBERG-CARLSON COMPANY
5415 York Blvd. ..... CLinton 7-3939

ENGINEERING DISTRIBUTORS

FRESNO
TINGEY COMPANY
847 Divisadero St. ..... ADams 7-6468

LOS ANGELES
HANNON ENGINEERING, INC.
5290 West Washington Blvd. ..... WEbster 6-5178

OAKLAND
CUSTOM ELECTRONICS
863 32d Street ..... OLympic 3-4178

PHOENIX
RA-TONE ELECTRONICS CO., INC.
325 No. 4th St. ..... ALpine 8-6793

SACRAMENTO
SEMONI SOUND SERVICE
2181 Weller Way ..... GIlbert 3-6438

SAN DIEGO
MUSIC SERVICE, INC.
2408 Fifth Ave. ..... BEImont 2-2589

SAN FRANCISCO
CUSTOM ELECTRONICS
2090 Evans St. ..... MIssion 8-2534

SAN JOSE
CUSTOM ELECTRONICS
87 Bassett St. ..... CYpress 3-4300

SEATTLE
W. D. LASATER COMPANY
615 No. 35th St. ..... MElrose 2090

SPOKANE
NORTHWEST ELECTRONICS, INC.
No. 102 Monroe St. ..... MAdison 8239

PORTLAND
MANCHESTER-CHANDLER CO.
2915 N.E. Alberta St. ..... GA 6600

Testing & Inspection of All Architectural and Construction Materials

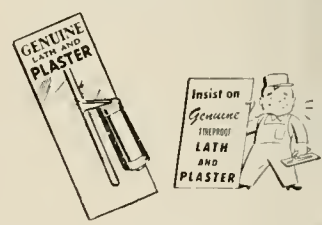
Metallurgists • Chemists Radiographers

Tests and Investigations of Foundation Soils

PITTSBURGH TESTING LABORATORY

651 Howard St., San Francisco 5
Phone: EXbrook 2-1747
Branch Office—741 W. 3rd St., Reno, Nev.

Offices in all principal cities in the United States



Attention: Mr. Architect and Engineer

The Lathing and Plastering Industry offers complete specification and planning assistance. This service is free with absolutely no obligation attached. Call or write the office in your area for immediate service.

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue
San Carlos LYtell 3-2634
Serving San Mateo and Santa Clara Counties.

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street
Oakland 12 GLencourt 2-0313
Serving Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16
GLadstone 1-1879
Serving Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

ment by Stanley A. Moe, general manager.

A native of Los Angeles, Rummel attended the public schools and Stanford University, completing graduate studies in architectural and structural design at the Los Angeles Art Center School and the University of California at Los Angeles.

He has been affiliated with DMJM for the past 3½ years, and was formerly assigned as Project Manager in charge of the DMJM office for Guam. Prior to that time he worked as Architect in the Tokyo, Japan office for the same firm.

NEW VICRTEX VINYL WALL COVERING IS ANNOUNCED

The warm, wax-like sheen and rich grain of real mahogany has successfully been captured in Hondura, a beautiful new Vicrtex VEF vinyl wallcovering.

This luxurious pattern is the newest imaginative original and is designed for use wherever the magnificence of mahogany paneling is needed in combination with the convenience, durability and washability of vinyl. It is a durable, practical, permanent wallcovering, fade resistant and frayproof, resistant to acids and stains, unaffected by atmosphere and climate, and wipes clean with a damp cloth. Full information from manufacturer, L. E. Carpenter & Co., Empire State Bldg., New York City.

RAYMOND CONCRETE PILE COMPANY ANNOUNCES A FOUNDATION CONTEST

The Raymond Concrete Pile Company, a division of Raymond International Inc., has announced the second annual Alfred A. Raymond Award of $1000 for the best paper on the engineering of structural foundations. The purpose of the award is to stimulate ingenuity, originality and research in foundation engineering.

Papers may deal with any phase of foundation engineering, soil investigation, theoretical or applied soil mechanics, and design or construction techniques. The contest has been broadened this year to include engineering undergraduates, and is also open again to graduate students and faculty, designing and practicing engineers and those engaged in foundation engineering and construction.

Three prominent engineers, Ralph B. Peck, professor of foundation engineering, University of Illinois; William W. Moore, partner, Dames & Moore, foundation consultants, Los Angeles; and E. A. Dockstader, consulting engineer, Boston, will serve as judges. Deadline for manuscripts is September 1, 1950.

OPENS NEW ARCHITECTURAL OFFICES

Robert M. Blunk, a member of The American Institute of Architects, has opened offices at 1299 Bayshore, at Broadway, Burlingame, for the general practice of architecture.

Blunk was associated with the firm of Janssen, Daseking & Keller, Menlo Park, for seven years. He received his education in the San Mateo city schools, and received his A.B. degree from Stanford University in 1947, earning his bachelor's degree in architecture from Cornell University in 1950.

DR. GENE M. NORDBY APPOINTED TO CONCLAVE

Dr. Gene M. Nordby, head of the department of civil engineering at the University of Arizona, has been chosen to represent the field of structural engineering at a national conference on architectural research to be held at the University of Michigan.

Sponsored jointly by the American Institute of Architects and the National Science Foundation, the conference includes forty leaders in the fields of engineering, architecture, sociology, psychology, geography, medicine and public health, city planning, and civil and structural engineering.

The conference has been designed to analyze the relationships between the physical, biological, and social sciences and will define needed basic research in the various fields as independent units and in the interaction between the fields.

ARCHITECT COMMISSIONED JAIL ADDITION

Architect Alistair Simpson, 64 N. Fulton Street, Fresno, has been commissioned by the Board of Supervisors of Fresno County to draft plans and specifications for construction of a 4th floor addition to the Fresno County Jail in Fresno.

Estimated cost of the project is $400,000.

GEORGE S. RICHARDSON ELECTED PRESIDENT OF CONSULTING ENGINEERS

George S. Richardson of Pittsburgh, Pa., has been elected president of the American Institute of Consulting Engineers, succeeding Herschel H. Allen of Baltimore, Maryland.

Other officers elected to serve during the ensuing year include: S. C. Hollister, Dean, College of Engineering, Cornell University; Harold M. Lewis, Consulting Engineer, New York; and Gerald T. McCarthy, New York.

The Institute was organized in 1910 "to

RIVIERA
HOTEL Las Vegas
Truly Magnificent
LIVE IN RELAXED LUXURY ...THE NEW WESTERN WAY ...BY COMBINING PARK AVENUE ELEGANCE AND DOWN-TO-EARTH WESTERN COMFORT
Now Appearing . . .

RAY BOLGER

Call your local travel agent for reservations . . .
because the Riviera is THE place to go!

Opening May 4th

HARRY BELAFONTE

SPECIFY CALAVERAS

LISTEN EVERY WEEK

KNBC
San Francisco
SATURDAYS
8:45 A.M.

KCRA
Sacramento
SUNDAYS
10:30 A.M.

KFIV
Modesto
FRIDAYS
6:00 P.M.

KSRO
Santa Rosa
SATURDAYS
12:15 P.M.

The Construction Industry's Voice on the Air

encourage the practice of engineering as a profession, promote ethical principles and procedures, advance the interests of engineers in all branches; but particularly those of consulting engineering, and to increase the usefulness of the profession to the general public."

Richardson is a native of Georgetown, Colorado, and studied at the University of Colorado, receiving a B.S. in Civil Engineering in 1920, C.E. in 1926, and Honorary Doctor of Engineering in 1956.

PORTLAND CEMENT ASSOCIATION OPENS PHOENIX OFFICES

The Portland Cement Association has opened a new district office in Phoenix, Arizona, with George M. Petzar, formerly of the Los Angeles office, as district engineer.

Opening of the office will permit better service to cement users in the state of Arizona, which heretofore has been served by the Association's Los Angeles district office.

The Portland Cement Association now has 6 regional and 33 district offices throughout the United States and in British Columbia, Canada.

BUDD O. STEVENSON APPOINTED CHAIRMAN AGC CONVENTION

Budd O. Stevenson, of the firm of Stevenson Pacific, Inc., Redwood City, has been named chairman of the 1959 Monterey Convention Committee of the Northern and Central California Chapter, Associated General Contractors, and has named a nine man committee to assist hi

Appointed to serve on the Monter Convention Committee were: Walla Benson and G. E. McGavran, San Fra cisco; E. J. Davies, Castroville; Joseph Fratessa and Harold C. Geyer, Montere Lew Jones, San Jose; Felix H. Siri, S Carlos; George W. Tombleson, Salin and Leo Westwater of Watsonville.

GLENMART COMPANY WILL MOVE INTO NEW PLANT

The Glenmart Company, Inc., Calif nia distributor of Unistrut products, soon move into a new $300,000 plant Los Angeles, according to a recent nouncement by Jos. Madl, Jr., presiden

The new facilities will contain 30,0 sq. ft. of area, and is scheduled for co pletion in May.

STROMBERG-CARLSON PROMOTES TAYLOR TO NEW POSITION

Henry M. Taylor has been appoin Manager of Military Marketing for Electronics Division of Stromberg-Carls division of General Dynamics Corpo tion, according to an announcement Harold P. Field, Director of Market for the division.

Taylor has been serving as Manager Marketing for Stromberg-Carlson's Diego plant since 1957. Prior to that t he was with Sylvania Electric Products manager of customer relations for Electronic Systems Division, and prior that time was with the Electronics En neering and Defense Electronics Divis of American Machine & Foundry Co pany and the Industrial Electronics D sion of Raytheon Manufacturing Co pany.

FOREST PRODUCTS RESEARCH SOCIETY IN SAN FRANCISCO

The Thirteenth National Meeting the Forest Products Research Society be held in San Francisco, June 29 - Jul with one feature of the conference be field trips to a variety of wood indu plants and research laboratories in the Area.

Tom Shelton of the Diamond Garc Corporation, Chairman of the Plant Arrangement Committee, has announ trips are scheduled for visits to the Fi board Products Corporation plant at A och; Michigan-California Lumber C

VALUABLE NEWS SERVICE

- BUILDING MATERIAL DEALERS
- CONTRACTORS
- SUB-CONTRACTORS
- MANUFACTURERS AND REPRESENTATIVES

ARCHITECTS REPORTS gives advance news on construction projects in Northern California, lists: name of projects, location, architect, proposed cost and other pertinent information.

HANDY individual slip-reports, issued daily at a total cost of only
$10 a month

ARCHITECT'S REPORTS
Published Daily
The ARCHITECT and ENGINEER, Inc.

68 Post Street, San Francisco - DO 2-8311

ARCHITECT and ENGINEER

Please enter my subscription for
..... year..... My check in the
amount of $..... is attached.
1 year $3.00
2 years 5.00

Name.....
City.....
State.....

pany, Camino; University of California Forest Products Laboratory, Richmond; Union Lumber Company, Fort Bragg; Masonite Corporation, Ukiah; and the Diamond-Gardner Corporation's plant at Red Bluff.

ARCHITECT SELECTED FOR HALL

Architect Irvin Hille, 26 Duffy Place, San Rafael, has been commissioned by the American Legion of San Rafael to design and prepare plans for construction of a new American Legion meeting hall at Union and Third Streets in San Rafael.

The new building will be one story in height, and of concrete block construction with tar and gravel roof.

JACK BEVASH JOINS WILLIAM A. PEREIRA AND ASSOCIATES

Jack Bevash, architect and former Director of Master Planning for Pereira & Luckman, has joined the planning and architectural firm of William L. Pereira & Associates as a partner, according to a recent announcement.

A graduate of Rutgers University, the University of Southern California School of Architecture, and the University of London's School of Town Planning, Bevash served as designer with the California State Division of Architecture and as designer and community planner for the architectural firm of Jones & Emmons before joining Pereira & Luckman in 1956.

VICTOR GRUEN GIVEN NAHB MERIT AWARD

An award for land planning in the National Association of Home Builders 1959 Merit Award competition has been presented to Victor Gruen Associates, nationally known architectural and planning firm with headquarters in Los Angeles.

The award was for the 4,000-acre Maryvale development project in Phoenix, Arizona. The Gruen firm won an award in 1958 NAHB competition for planning the $40,000,000 Lamirada Business Center in La Mirada, California.

AUTOMATIC TUBE FIRM OPERATES EXTENSIVE SAN JOSE PLANT

The Automatic Tube Company, 1365 No. Tenth Street, San Jose, represents one of the newer industrial manufacturing plants in Northern California, specializing in the manufacture of pneumatic tube equipment, and according to W. Van Otteren, president, the firm is the only manufacturer of pneumatic tube equipment on the West Coast.

NEW LED-PLATE ANTI-SEIZE COMPOUND

A new "Led-Plate" anti-seize sealing compound, No. 250F with filler added and designed to stop those spiral leaks from diameter threads and coarse fittings has been announced.

This new product stops leaks in welded flanges that have become oval or distorted. Especially good for clean-out plugs and extremely high temperatures and pressures. Complete data from Armite Laboratories, 6609 Broad Street, Los Angeles 1, Calif.

NOTED DESIGNER JOINS LUCKMAN ASSOCIATES

Peter Munselle, A.I.A., principal architectural designer of the Harbor General Hospital in Los Angeles County and on a portion of the Hawaiian Village in Honolulu, has joined the Charles Luckman Associates, Los Angeles planning and architectural-engineering firm, as chief designer, according to a recent announcement by Charles Luckman, president.

A graduate of Loyola High School in Los Angeles, Munselle received his bachelor of architecture degree from the University of Southern California.

MECIA ELECTED VICE PRESIDENT UTAH CONSTRUCTION

J. A. Mecia has been elected a General Vice-President of the Utah Construction Company, according to a recent announcement by Marriner S. Eccles, Chairman of the Board.

Mecia has been special vice president and manager of the company's mining division. Other officers elected at the annual meeting held in Salt Lake City, Utah, were W. D. Smith and L. M. Smith, Assistant Secretaries, and F. W. Rollins, Jr., Assistant Treasurer. All other company officers and directors were re-elected.

CATHOLIC SEMINARY SCHEDULED FOR GALT CONSTRUCTION

Architect Harry J. Devine, 1012½ "J" Street, Sacramento, is preparing drawings

MATTOCK CONSTRUCTION COMPANY

★

BUILDERS

★

220 CLARA STREET
SAN FRANCISCO

DINWIDDIE CONSTRUCTION COMPANY

•

BUILDERS

•

CROCKER BUILDING
SAN FRANCISCO

ABBOT A. HANKS, INC.
Engineers & Chemists
INSPECTING — TESTING — CONSULTING
CONCRETE • STEEL • MATERIALS
CHEMICAL AND TESTING LABORATORIES
• RESEARCH AND INVESTIGATION •
TESTS OF STRUCTURAL MATERIALS
DESIGN OF CONCRETE MIXES
SHOP AND ERECTION INSPECTION OF STRUCTURES AND EQUIPMENT
INVESTIGATION OF STRUCTURES AND MATERIALS
TESTS AND INVESTIGATION OF FOUNDATION SOILS
FIRE RESISTANCE AND INSULATION TESTS
1300 Sansome Street, San Francisco
Telephone EX 7-2464

MacDONALD YOUNG & NELSON, INC.
General Contractors
8907 Railroad Avenue
Oakland, Calif.
LOckhaven 9-4433

Subscribe Now —
ARCHITECT and ENGINEER
$3.00 Per Year

ROBERT W. HUNT CO.

ENGINEERS

INSPECTING TESTING

STRUCTURAL MATERIALS
CONCRETE MIX DESIGN
CHEMICAL ANALYSIS
EQUIPMENT

PRINCIPAL CITIES
UNITED STATES • EUROPE
SAN FRANCISCO LOS ANGELES
PORTLAND SEATTLE

MULLEN MFG. COMPANY

BANK, STORE AND OFFICE FIXTURES—CABINET WORK OF GUARANTEED QUALITY CHURCH SEATING

Office and Factory
60-80 RAUSCH ST., Bet. 7th and 8th Sts.
San Francisco
Telephone UNderhill 1-5815

HERRICK IRON WORKS

STRUCTURAL STEEL
REINFORCING STEEL
PRISON EQUIPMENT
PRELOAD PRESTRESSING

BOX 3007
HAYWARD, CALIF.
Phone LU 1-4451

KOLORBLEN
Concrete Color Hardener
COLOR WAXES
SEALER—STAINS
Conrad Sovig Co.
Distributors—Contractors Concrete Specialties
875 BRYANT STREET
San Francisco - HEmlock 1-1345

for construction of a $2,500,000 Catholic Seminary to be built in Galt for the Roman Catholic Diocese of Sacramento.

The new facilities will be of reinforced concrete construction.

WELTON BECKET OFFERS MASTER PLAN FOR AIRPORT EXPANSION

Welton Becket of Welton Becket & Associates, nationally famed firm of architects and engineers, recently presented a $35,000,000 Master Plan for future expansion and development of the San Francisco International Airport to San Francisco city officials headed by Mayor George Christopher.

The plan will serve as a guide for construction needed to keep the airport in step with the jet age.

UNITARIAN CHURCH PLANS EXPANSION IN SAN RAFAEL

Architect Stephen M. Heller, Pier 18, Embarcadero, San Francisco, is preparing preliminary plans for construction of a new Church building in North San Rafael for the Marin Unitarian Church of San Rafael.

The new Church will be located on a 50-acre site north of San Rafael and will comprise a three-story building of 10,000 sq. ft. area. Included will be administration offices, nursery school, children's chapel, Parish Hall and kitchen. Estimated cost of the work is $300,000.

FEDERAL OFFICE BUILDING AND COURT HOUSE

Architects Harry J. Devine, Raymond Franceschi, Herbert Goodpastor, A. M. Dreyfuss and Rickey & Brooks, all of Sacramento, are preparing drawings for construction of a $10,000,000 Federal Office building and Court House to be built in Sacramento for the General Services Administration, Business Service Division.

The new building will be of reinforced concrete construction.

COUNTY HEALTH BUILDING FOR YUBA CITY

The architectural firm of Hansen & Winkler, Elm at "B" Streets in Marysville, Sutter county, is preparing drawings for construction of a new County Health Building in Yuba City for the counties of Yuba and Sutter.

The new Health Center will provide offices for doctors and health officials of the two counties, also facilities for clinics and laboratories. Single story construction, the building will contain 7,000 sq. ft. of area.

FULLERTON HAS AUTHORIZED ENGINEER OFFICE

The City Council of Fullerton, California, recently approved plans of Duraco Enterprises, Inc., to construct an architectural and engineering office north of the new city station on Fullerton Rd. at Hermosa Pl.

Index to Advertisers

ANDERSON Co., Carl E. 1
ANDERSON Materials, Inc. 1
ARCHITECTS Reports 4
ASSOCIATED Inspectors and Electronic Specialists, Inc. 1
BASALT Rock Co. 2
BRIGGS Beautyware
CALAVERAS Cement 4
C & H Specialties Co. 4
CALIFORNIA Metal Enameling Co., Architectural Division
CLASSIFIED Advertising 3
DEL MONTE Electric Co., Inc. 2
DINWIDDIE Construction Company 4
FINK & Schindler Co. 1
FORDERER Cornice Works 3
GILMORE-Skoubye 1
GROVER Engineers, Inc. 1
HAAS & Haynie Const. Co. 3
HANKS, Abbot A., Inc. 4
HAWS Drinking Faucet Co. 3
HERMANN Safe Co., The 3
HERRICK Iron Works 4
HORN, A. C., Co. 2
HUNT, Robert W., Company 4
JOHNSON Co., S. T. 3
JUDSON Pacific-Murphy Corp. 3
KLEINEN Co., Inc.
KRAFTILE Company 2
MacDONALD, Young & Nelson, Inc. 4
MARCONI Plastering Co. 2
MATTOCK Construction Co. 4
MAYTON Architectural Fabricators. 1
McNEAR Brick Co. 1
MICHEL & Pfeffer Iron Works, Inc. Inside Front Cover
MULLEN Mfg. Co. 4
PACIFIC Cement & Aggregates, Inc. 2
PACIFIC Iron & Steel Corp. Back Cover
PACIFIC Manufacturing Co. 3
PARAMOUNT Millwork Co. 2
PITTSBURGH Testing Laboratory 4
PLASTERING Institute 4
PORCELAIN Enamel (Architectural Division) Publicity Division. *
RAYPAK Co., Inc. 3
REED, George W. & Co. 1
REMILLARD-Dandini Co. 4
REPUBLIC Steel Corporation 3
RIVIERA Hotel, Las Vegas, Nev. 4
ROYAL Showcase & Fixture Co. 2
SCOTT Company 4
SHADES, Inc. 4
SIMONDS Machinery Co. 3
SOVIG, Conrad, Co. 4
STROMBERG-Carlson Co. 4
TAYLOR, Hugh, Inc. 1
UNISTRUT Co. 4
U. S. Savings Bonds Inside Back Cover
VERMONT Marble Co. 3
WEST Coast Weatherstrip Co. 2
WESTERN Structural Tile Institute. *

* Indicates Alternate Months

ARCHITECT AND ENGINEER

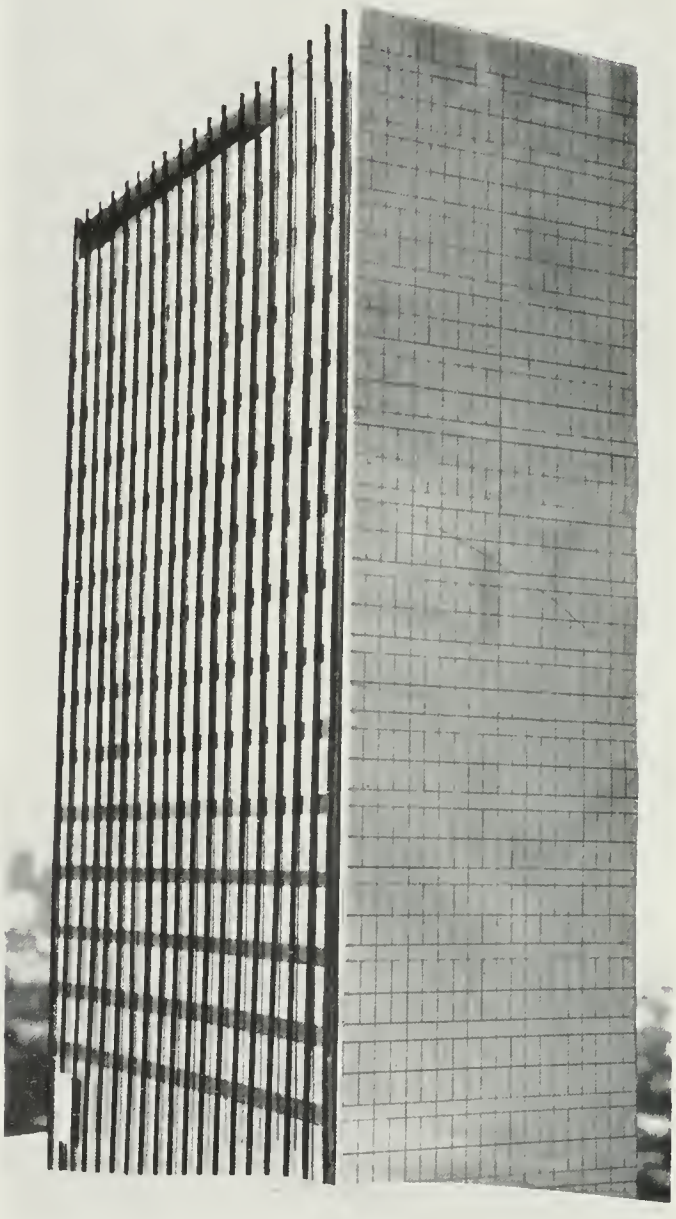
MARIN TERRACE SCHOOL — Mill Valley, California

CORLETT and SPACKMAN, A.I.A., Architects

MAY 1959

PACIFIC TELEPHONE'S NEW MAIN EQUIPMENT BUILDING

R. C. MOSELEY, Building Engineer • **SAN FRANCISCO, CALIFORNIA**



Architect's model of building, designed for on ultimate height of 15 stories.

ALECK L. WILSON
Architect

CAHILL BROS. INC.
General Contractor

Miscellaneous Iron & Metal Work

ARISTON
Metal Products
SINCE 1912

Michel & Pfeffer Iron Works, Inc.

212 Shaw Road, South San Francisco, California PLaza 5-8983

Fabricators of:
Architectural Metal Work • Steel Buidlings • Metal Windows and Doors

ART DEPT.
MAY 5 1959

THE U.S. TREASURY SALUTES THE PETROLEUM INDUSTRY

—and its thousands of employees who help strengthen America's Peace Power by buying U.S. Savings Bonds

People in America's petroleum industry take pride in the vital role of their products and services in the national defense and domestic economy. This year the petroleum industry celebrates its first century and features the slogan "Born in freedom . . . working for progress."

Thousands upon thousands of these people find personal satisfaction, too, in helping to strengthen America's Peace Power through regular purchase of U.S. Savings Bonds. The use of the Payroll Savings Plan makes this sound practice convenient and easy.

If your own company does not have a Payroll Savings Plan in operation at present, take one of these two easy steps to start one and help your people to "Share in America." Your State Savings Bond Director is anxious to help. Telephone him now. Or write to Savings Bond Division, U.S. Treasury Department, Washington, D. C.

L. P. HOLLAND, skilled refinery technicion, is typical of thousands of key employees in this field who are buying U.S. Savings Bonds regularly. Mr. Holland, through his company Payroll Savings Plan, is making a personal contribution to the Peace Power of our country.

ARCHITECTS DAILY REPORTS

THE U. S. GOVERNMENT DOES NOT PAY FOR THIS ADVERTISEMENT. THE TREASURY DEPARTMENT THANKS, FOR THEIR PATRIOTISM, THE ADVERTISING COUNCIL AND THE DONOR ABOVE.

WILLIAMS & BURROWS, INC.,

General Contractors

Home Office Buliding
Belmont, Calif.

Have recently completed a brochure containing data and illustrations of industrial, commercial and civic construction projects built by their company.

Inquiries are invited from Architects, Engineers or Companies.

WILLIAMS & BURROWS, INC.

500 Harbor Blvd. **Belmant, Cal**

Vol. 217 No. 2

ARCHITECT AND ENGINEER

EDWIN H. WILDER
Editor

CONTRIBUTING EDITORS:

Education
SIDNEY W. LITTLE, Dean, College of Fine Arts and Department of Architecture, University of Arizona, Tucson, Arizona.

City Planning
CORWIN R. MOCINE, City Planning Engineer, Oakland, California

Urban Planning and Shopping Centers
FRANK EMERY COX, Sales Research & Business Development Analyst, Berkeley, California

Realty Development
ROY P. DRACHMAN, Subdivider and Realty Developer, Tucson, Arizona

School Planning
DR. J. D. McCONNEL, Stanford School Planning Dept., Palo Alto, California

Residential Planning
JEDD JONES, Architect, Boise, Idaho

General Architecture
ROBERT FIELD, Architect, Los Angeles, California

Engineering
JOHN A. BLUME, Consulting and Structural Engineer, San Francisco, California

Advertising
WILLIAM A. ULLNER, Manager

FRED JONES
Special Advertising

★

COVER PICTURE

MARIN
TERRACE
SCHOOL
Mill Valley,
California

Modern Elementary School designed for and built on top of a hill.
See page 19 for full details.

Corlett & Spackman, A.I.A.
Architects

ARCHITECTS' REPORTS—
Published Daily
Archie MacCorkindale, Manager
Telephone DOuglas 2-8311

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.; and ART INDEX

Contents for

MAY

EDITORIAL NOTES 4

WORLD'S LARGEST WATER FLOODING PROJECT, Long Beach, California 5
M. A. NISHKIAN AND COMPANY, Consulting Engineers.

NEWS AND COMMENT ON ART 6

TWO-SEASON LIVING, In The Pacific Northwest 8
By ARTHUR W. PRIAULX.

PACIFIC TELEPHONE COMPANY, New Main Equipment Building, San Francisco 16
ALECK L. WILSON, Architect; JOHN J. GOULD and H. J. DEGENKOLB, Structural Engineers; BREWER & ASSOCIATES, Foundation Engineers; WILLIAMS & BURROWS, Foundation Contractors; LYLE E. PATTON, Electrical Engineer; BUONACCORSI & MURRAY, Mechanical Engineers; AMERICAN BRIDGE DIVISION, U. S. STEEL CORP., Structural Steel Contractors; CAHILL BROS., General Contractors.

MARIN TERRACE SCHOOL, A School Atop A Mountain, Mill Valley, Calif. 19
CORLETT AND SPACKMAN, A.I.A., Architects; JOHN M. SARDIS & ASSOCIATES, Structural Engineers; BUONACCORSI & MURRAY, Mechanical Engineers; LARRY HALPERIN, Landscape Architect.

AMERICAN TRUST COMPANY, Branch Banking Facility, Napa, Calif. . 22
CORLETT AND SPACKMAN, A.I.A., Architects; JOHN M. SARDIS AND ASSOCIATES, Structural Engineers; VANDAMENT AND DARMSTED, Mechanical-Electrical Engineers.

BUSCH'S DRIVE-IN RESTAURANT, Tacoma, Washington 24
PERCY GEORGE BALL, A.I.A., Architect; JOHN LADE, General Contractor.

AMERICAN INSTITUTE OF ARCHITECTS—Chapter Activities 26

WITH THE ENGINEERS—News and Notes 28

BOOK REVIEWS, Pamphlets and Catalogues 33

ESTIMATOR'S GUIDE, Building and Construction Materials 35

BUILDING TRADES WAGE SCALES, Northern, Central & Southern California 37

CLASSIFIED ADVERTISING 38

ESTIMATOR'S DIRECTORY, Building and Construction Materials 39

CONSTRUCTION CONTRACTS AWARDED and Miscellaneous Data . . . 41

IN THE NEWS 44

INDEX TO ADVERTISERS 48

THE OLDEST PROFESSIONAL MONTHLY BUSINESS MAGAZINE OF THE ELEVEN WESTERN STATES

ARCHITECT AND ENGINEER (Established 1905) is published on the 15th of the month by The Architect and Engineer, Inc., 68 Post St., San Francisco 4; Telephone EXbrook 2-7182. President, K. P. Kierulff; Vice-President and Manager, L. B. Penhorwood; Treasurer, E. N. Kierulff. — Los Angeles Office: Wentworth F. Green, 439 So. Western Ave., Telephone DUnkirk 7-8135 — Entered as second class matter, November 2, 1905, at the Post Office in San Francisco, California, under the Act of March 3, 1879. Subscriptions: United States and Pan America, $3.00 a year; $5.00 two years; foreign countries $5.00 a year; single copy 50c.

EDITORIAL NOTES

A STRONG ECONOMY

Some businessmen, consumers and even economists, impatient with the pace of the business recovery, tend to overlook one of the strong factors that augurs well for the future strength of our economy.

This has been the steady, rather quiet increase in liquidity, the building up of cash resources, by both business and consumers. Ordinarily, an upturn in business leads to more spending, which drains away cash resources and makes heavier borrowing necessary. The consequent strain on liquidity tends to slow the recovery.

However, the current recovery has been characterized by a lag in buying of durable goods by both corporations and individuals. Since durable goods involve large outlays, liquid resources are not being drained. Instead there is a steady accumulation of liquidity which, when released, promises increases in spending for new cars, new refrigerators, new industrial plants, and other new construction.

The one type of consumer durable goods spending that has shown a sharp rise has been the purchase of homes. The liquidity of thrift institutions that absorb these mortgages is strengthened by the increased flow of personal savings. Funds are thus provided to take up the record volume of forward mortgage commitments that many of these institutions made last year.

* * *

Federal, state and local taxes took more than $100-billion last year — 27.5 per cent of the $364-billion earned by Americans during the year.

* * *

BIG NEED IN NAVAL ARCHITECTURE

"The big need in Naval Architecture is more science," says professor Richard B. Couch, chairman of University of Michigan's department of naval architecture and marine engineering. "Naval architecture is still too much 'art' and not enough 'science'," he states and adds that in the past each new ship has been only a small step ahead of its predecessor technologically.

If the theoretical and experimental approaches used in such fields as aircraft design were applied to ship design, he says, "greater improvements could be made in them, and made without the aid of a costly prototype for trials."

The Professor believes ships could be made faster, more seaworthy, more maneuverable and less costly by greater attention to details and exploitation of technological advances, and being an expert he should know.

* * *

The power industry is expected to double its size in the next 10 years. It relies heavily on scientific control instruments.

FHA SIMPLIFIES PROCEDURE

A new plan whereby home builders can use a sing commitment for a variety of houses built on a bas design has been placed in operation by FHA. The s called "master commitment" means that a build can submit a basic design, together with variations- such as the addition of a fireplace, garage, porch ar the like—and obtain one commitment that covers th design and the additions. Heretofore, builders hav been required to get commitments for each variatio

"This new procedure, which becomes effective necessary forms arrive at field offices, will make possible for a builder to tell prospective buye exactly how much each addition to the basic hou will cost," FHA Commissioner Norman P. Mas has declared. FHA will make the necessary determin tions during processing with respect to the cost an value that would result if such changes as addition or deletions, are made in the dwelling.

* * *

A survey conducted by the Scientific Apparatus Makers Association reveals that only 9 per cent of the country's high school vocational counselors have a background in science.

* * *

WHAT CAN YOU DO?

What can you do to help fight inflation?

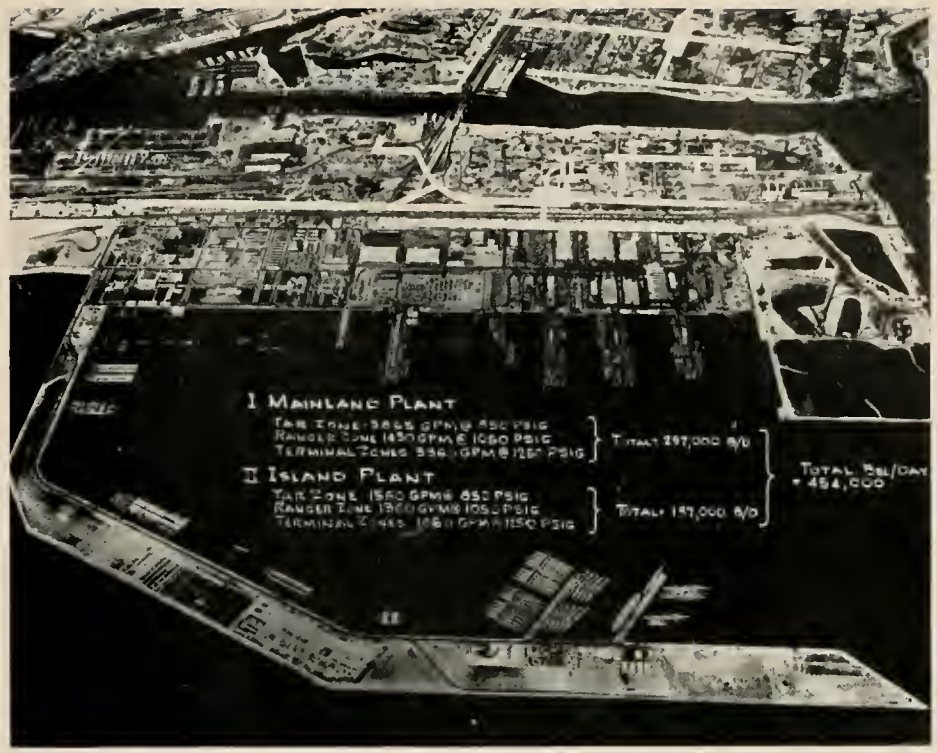
The answer to that question is that YOU can joi the fight against increasing costs by learning mo about the problems involved; learn to distinguish b tween beneficial and quack remedies, and by helpin to spread a better understanding among your friend associates, customers, clients, neighbors and membe of Congress.

If this important job isn't done by YOU, individu ally and collectively, it will not be done at all; c inflationary influences will "take over."

Who else but YOU can be depended upon to ex plain the basic principles on which the business sy tems of our free enterprise system depend; the fallac of the idea that "growth" can be dictated by gover ment and the consequences of using government prin ing presses to print money to expand governmen activities.

Labor leaders, meddlers and big spenders are bea ing down hard on public opinion and on this Congres with excessive demands supported by fallacious argu ments . . . and YOU are their main target.

As a professional man, a believer in free and ind vidual enterprise, YOU should have every incentiv to believe, practice and advocate economic sanity.


I MAINLAND PLANT
TAR ZONE-3865 GPM @ 850 PSIG
RANGER ZONE 1430 GPM @ 1080 PSIG
TERMINAL ZONES 336 GPM @ 1250 PSIG
TOTAL 297,000 B/D
II ISLAND PLANT
TAR ZONE 1560 GPM @ 850 PSIG
RANGER ZONE 1360 GPM @ 1050 PSIG
TERMINAL ZONES 1080 GPM @ 1250 PSIG
TOTAL 157,000 B/D
TOTAL BBL/DAY
= 454,000

M. A. NISHKIAN and Company, Consulting Engineers

WORLD'S LARGEST WATER FLOODING PROJECT

LONG BEACH, CALIFORNIA

The world's largest water flooding project to restore underground pressures is being undertaken by the major oil producers in the Wilmington Oil Field, at the Long Beach Harbor. To expand the present program of injecting approximately 200,000 barrels of water daily to the anticipated 1,113,000 barrels per day, it will be necessary to construct and install additional water injection systems consisting of source wells, facilities for treatment of salt water, pipeline and pumping plants of sufficient capacity to inject water into the subsurface under pressure.

The consulting engineering firm of M. A. Nishkian and Company of Long Beach was retained to perform the preliminary studies and final design for a series of water injection systems consisting of surface pumping plants, source and distribution systems, which are necessary to the greatly expanded program. The design of these facilities for the initial phase of the expanded program—the repressuring of two areas of the field known as Fault Blocks II and III—is now nearing completion. Construction is scheduled to begin in the immediate future. Completion of the system is set for October 1, 1959. Total cost is estimated at $3,375,746.

According to M. A. Nishkian, head of the consulting engineering firm, "The purpose of the system is to take salt water from source wells and to distribute it to injection wells to be injected into the subsurface at high pressure. The plans for the Fault Block II and III area includes two pumping plants of outdoor design—the mainland plant located north of the Cerritos Channel, and the island plant south of the channel. The plants will eventually supply 454,000 barrels of water daily to 98 injection wells at pressures ranging from 850 to 1250 psig."

NEWS and COMMENT ON ART

OAKLAND ART MUSEUM

The Oakland Art Museum, 1000 Fallon Street, under the direction of Paul Mills, Curator, is presenting the following special Exhibits and Events during this month:

EXHIBITS: "As Currier & Ives Saw California"—gold rush scenes, the great clipper ships, Yosemite Valley and other scenic wonders were depicted in the lithographs of Currier & Ives, including some of the rarest and most highly prized prints by these nineteenth century printmakers. The exhibit is installed in a handsome setting of Victorian furnishings and interior fittings, which make an interesting exhibition in themselves.

"The Painted Flower", presented by the Oakland Art Association, in cooperation with the Museum and the Women's Board of the Oakland Museum's Association, at the time of the Garden and Home Show. Representing paintings of flowers in all styles and media by artists from throughout the Bay region. It is a juried exhibition.

"Oakland and Lisbon Student's Exchange", young students in the public schools of Lisbon, capital city of Portugal, last year presented an exhibition of paintings to their city in the Municipal Art Gallery of Lisbon, and this exhibition is being shown here. In turn students of Oakland's public schools are presenting work for exhibit here which subsequently will be shown in Lisbon.

Special Events include lectures on Art, Museum tours, and the Art Rental Service.

The Museum is open daily.

ARCHITECTURAL GALLERY OF LOS ANGELES

A special exhibition of the work of Walker Kalionzes and Klingerman, Los Angeles, architects, has been on exhibit at the Architectural Gallery in the Building Center, 7933 West Third Street, Los Angeles.

CALIFORNIA PALACE OF THE LEGION OF HONOR

The California Palace of the Legion of Honor, Lincoln Park, San Francisco, under the direction of Thomas Carr Howe, Jr., has arranged a number of special exhibitions and events for this month, including:

EXHIBITS: The Collection of Mr. and Mrs. William Goetz—this famous collection of works by the great masters of Impressionism and Post-Impressionism, consisting of more than fifty paintings by such artists as Manet, Monet, Renoir, Degas, Van Gogh, Matisse, Picasso, Bonnard and Vuillard is being shown for the first time in its entirety. The exhibition is presented under the sponsorship of Patrons of Art and Music. "Paintings" by Thomas Dibble; "Paintings" by Marjorie Phillips; Greek and Byzantine Coins from the collection of Edward Gans ad "Paintings" by Ralph Johnson.

The Achenbach Fountdation for Graphic Arts will also present a special feature.

EVENTS: Organ Program each Saturday and Sunday afternoon at 3 o'clock, featuring organists Richard Purvis and Ludwig Altman. Classes for children in art (recessed during April) will be resumed.

The Museum is open Daily.

ARCHITECTURAL INTEREST IN ART EXHIBIT AT SF MUSEUM

In conjunction with the special showing of "Painting in Post-War Italy" currently being shown at the San Francisco Museum of Art, War Memorial Building, Margaret and Nathaniel Owings, FAIA Architects of San Francisco, will speak on "Contempory Art Impressions on a Roman Holiday" on May 27th at 8:30 p.m.

Mr. Owings is a member of the national architectural firm of Owings, Skidmore, Owings and Merrill.

M. H. deYOUNG MEMORAL MUSEUM

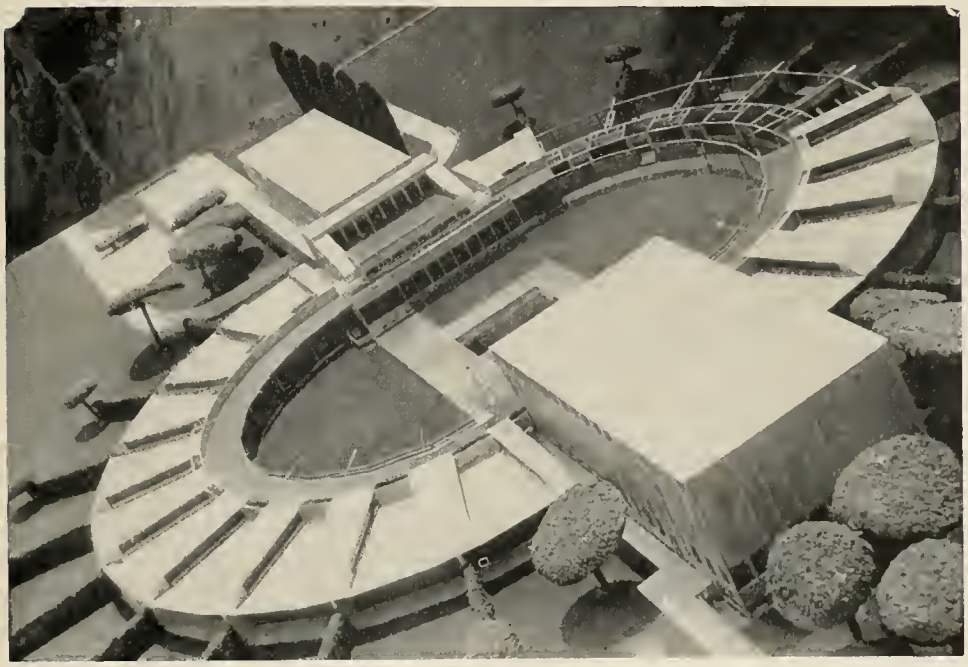
The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, is presenting the following special exhibits and events for this month:

EXHIBITS: "The Art of Ancient Maya"—the first completely Mayan Exhibition ever presented in the United States containing more than 100 objects documenting the rise and decline of the great Maya culture between 1500 B.C. and 1500 A.D. The major part of the collection is lent by the national Museum of Guatemala, Guatemala City, with other contributing museums being the Museum of Primitive Art New York City; Yale University; the Middle American Research Institute of Tulane University, and the University of Pennsylvania. "Indian Paintings from Rajasthan", circulated by the Smithsonian Institution "Venetian Drawings, 1400-1630" from the Janos Scholz Collection; "Renaissance Jewels" from the Martin J. Desmoni Collection and "Persian and Indi

(See page 32)

SAN FRANCISCO MUSEUM OF ART

WAR MEMORIAL BUILDING CIVIC CENTER



RING PLAN SCHOOL-PROJECT
(1926)

Designed by RICHARD NEUTRA,
F.A.I.A. Architect

Independent of site orientation, hence suitable for prefabrication.

Independent of fixed seating assignment within classrooms.

Center: **Wading pool, exercise area.** ***Left of center:*** **Administration, library, conference rooms, lunchroom, terrace with kitchens.**

One of the works being shown in the "Richard Neutra Retrospective Exhibition" and featured at the Museum until June 7th. Organized by Frederick S. Wight for the University of California in Los Angeles, the exhibition is o biography of the architect, using photographs, automotic projections, and Neutra's own writings to survey his career.

A. G. Nowels home, designed by James Morton.

TWO-SEASON LIVING

IN THE PACIFIC NORTHWEST

By ARTHUR W. PRIAULX

Where grass won't grow in the shade, this ground-level deck was planned.

Catering to man's changing living habits, today's architects are designing more and more homes with a two-season living area, part enclosed and part under the stars.

Intriguing and fascinating are the many devices used by designers to extend living space into the open air. Families of the fresh-air cult, blessed with long months of moderate, healthy, outdoor weather here in the West are asking for homes with comfortable means of enjoying the outdoor life.

A summer inspection by this writer of more than 200 architect-designed homes in the Western states

revealed an amazing variety of outdoor living schemes. Without exception, every one of these homes featured two-season living. Tract homes are not without their concession to this selling feature, and, of course, the design of the tract home follows closely the latest introductions of the working designers who set the home style standards of our time.

Simplicity seems to be the keynote for the outdoor living area. Even the most elegant homes play down ostentation in their decks and patio areas. The simple design seems to blend best with the surrounding outdoors: the shrubbery, lawns, trees, and the wood of the homes.

By far the most popular outdoor areas are inexpensive wood decks, many of them mere extensions of the living room and on the same floor level. Decks are usually designed in Douglas fir 2x4s, 2x6s, and 2x8s, but the pattern varies widely. Many deck boards are merely laid parallel with about an eighth of an inch spacing between each plank to allow runoff of rain water and to permit easy cleaning with water from a garden hose. Some 2x4 decks are laid with the narrow edge uppermost.

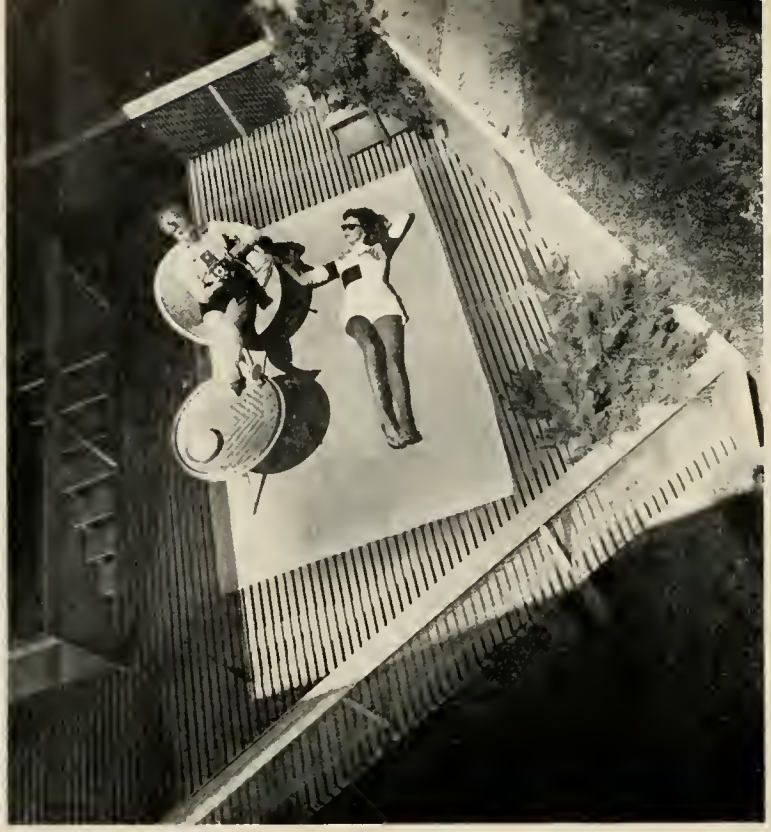
Checkerboard patterns are easily achieved by laying the deck floor in squares 6x6 or 8x8 feet, with planks in adjoining squares at right angles. Some have used alternating squares of 2x4 and 2x6 plank. A variety of patterns has been developed with deckboards laid at an angle to the square of the home.

Built-in benches surround some decks to increase usable space and to reduce need for cluttery furniture. Where decks hang out over cliffs or are far above the ground level, screening fences and wooden railing provide safety. Some decks follow the contour of the home, some assume individual shapes, such as circular, crescent, or even trapezium. Some have delightful two-level features which give the illusion of large size.

Probably one of the most exciting outdoor living room decks was designed for Mr. and Mrs. John Simon of Lake Oswego, Oregon, by Architect DeWitt C. Robinson. (See page 10, top.) Here is the ultimate in individuality, a trapezium shape deck forming a projection of the dining room with a magnificent view of the Willamette River from high on a bluff. This

UNADORNED DECK

For Phillip Feldman family in Portland's Raleigh Hills, designed by Architect Saul Zaik is charming in its simplicity.



TRAPEZIUM

SHAPE

DECK

Designed by Architect DeWill Robinson for home of Mr. and Mrs. John Simon of Lake Oswego, Oregon.

A SHADY BOWER is this outdoor retreat at the Portland, Oregon suburban home of Frank O. Wright, designed by Architect John Storrs.

deck will easily accommodate eight or ten people. It is reached by sliding glass doors which open directly into the dining room, and it has the added feature of a stairway to the yard area below.

The odd angles of this deck are enhanced by the deck flooring, which is made up of 2x4s laid on edge and which parallels the house. A low railing with a 2x4 cap has a tight wire screen reaching down from the railing to the deck level for added safety.

In a wooded setting near Eugene, the A. G. Nowels home, designed by James D. Morton (see page 8), features an extended outdoor living room which is a true projection of the main living room and on the same level. Only a full wall of glass separates the two areas, which are easily accessible through double hung glass doors easily opened up to allow free passage of guests or family.

The deck in this instance is built of fir 2x8s which contrast sharply with the more elegantly furnished interior living room floor. Another higher deck, reached by a series of two steps, and adjoining the kitchen-family room, provides two distinct, outside living areas, where both family and children may entertain at the same time. These decks open directly into the wooded yard, just a foot or so above the sloping ground. The decks have been permitted to weather to a silvery gray which blends in well with the surrounding natural setting. Three two-foot square planter boxes have been arranged along one edge of the deck and define the area, forming an effective boundary marker on the wooded side.

Designer James D. Morton created an equally charming outdoor area in a home near Eugene which he designed for himself. Again, he has used the two-level idea most effectively. One deck is an extension of the living room, and again he used 2x8s for the sharp contrast with the home's interior. The second deck is just a step down from the level of the living room extension, almost hugging the ground. This reaches out to a solid, wall-like fence and provides, in truth, the privacy of a room, but with all the advantages of the outdoors. Interesting is his utilization of

LARGE DECK With Varied Widths

Designed for the C. Girard Davidson home in Portland, Oregon, by Van Evra Bailey.

Family gets view of the Willamette River.

existing small oak trees in the back yard. He merely built the deck around them, allowing the tree trunks to project up through square holes which are large enough to allow for a number of years of growth. The effect is a shady, bower-like decked courtyard which is ideal for parties and lounging. It provides a good play area where children can keep out of the dirt.

Porches have had a revival in recent years, and many of them have been dressed up with a few carefully selected features to give them wider use as patio decks. A particularly charming example of this type of design was developed by Architect Donald S. Blair when he created the Joseph Zeigler home in the Council Crest district of Portland. (See page 13.)

This deck porch follows the floor line of this two-level home and has been built wide enough to provide ample lounging area, as well as room for dining or card tables. The bedroom wing of this home was designed three steps higher than the living area, and the porch deck opening from the bedrooms, being removed from the main deck opening off the living room, in effect gives two distinct outdoor living spots. A handsome railing, topped with a 2x6 cap, gives substance to the deck, which overhangs still another outside room reached from a family room on the lower floor. The upper deck provides a roof and protection during extremely hot days.

The Zeigler house is below the street level, and a corner of the yard lying adjacent to the driveway and carport presented a difficult problem in creating space with any utility. Architect Blair solved the problem by erecting an offset cedar board fence along the front walk and the driveway, and in this small corner he created an utterly charming and restful spot for outdoor enjoyment. A two-foot high planter of cedar forms a planting area along the base of the fence. At the foot of this is a mirror pool, also L-shaped. A deck of fir 2x8 boards leads out from the front entrance and parallels one edge of the pool. Here again a deck has been developed to conform to site and used to turn what would otherwise have been a hard to manage bit of yard into a thing of beauty.

One is impressed with the simplicity of these various deck designs, and in most cases the architect intends that colorful outdoor furniture will provide the accent.

Even at lawn level, where the living room opens directly onto the flat lawn, a deck can give a certain signature of individuality to a home. This was proven by Architect Saul Zaik when he designed the Phillip Feldman home in the Raleigh Hills district of Portland. (See page 9.)

This little deck is a true extension of the living room, and on the same level. It has been made of 2x4s laid edgewise with a simple 3x3 railing supported by four posts of the same size. It provides a well defined space outdoors where the family can enjoy themselves No effort has been made to integrate this deck wit the outdoors by means of shrubbery, screen or trees Yet, it adds considerable charm and intrigue to th Feldman home because of its definite and obviou utility in the midst of a green lawn. In this suburba home, privacy is not a factor.

Some decks are large structures, especially wher families do extensive entertaining, and may be a much as 100 feet long and 30 feet wide. Such is th case of the one designed for the C. Girard Davidso family by Architect Van Evra Bailey. (See page 11. This deck extends the full length of the Davidso home, which is high atop one of the west hills o Portland overlooking the Willamette River and th mountains to the north and east.

It has been designed to handle large crowds, s has a banquette seat completely around the thre sides. Because it is high on a hill with rather stee terrain below, a tight wire fence about four feet hig has been installed around the perimeter to keep th Davidson children from wandering into trouble. Th deck is in an L-shape, which lends charm to such large area. Again, this deck has been built of 2x4 installed edgewise. Some builders, when nailing th deck boards, use a steel washer for spacing to ge uniformity.

The foundation structures for these decks must b carefully designed, a number of architects cautioned and must be sturdy enough to support far above th intended load. Ordinarily, the joists and framing tim ber need not be treated, especially if there is ampl room for water runoff, but the posts should be se on concrete piers free of the soil. If the deck is high cross bracing is a must. While decks will take stand ard and better Douglas fir dimension lumber, som reasonable care should be exercised to eliminate th occasional piece which might have too large a knot a particularly rough spot, or a knot uppermost in cas the 2x4s are laid edgewise.

The Frank O. Wright home in Dunthorpe, a exclusive Portland suburb, (see page 10, bottom), is o a gently sloping lot in a thickly wooded area. Many o the trees have been left intact, only those immediatel around the house having been removed. To make th most of this sylvan rtreat, Architect John Storrs de signed a deck the full length of the Wright home facing a small lawn, but completely surrounded b tall maples, ash, alder and other similar trees. Th deck is wide, made of 2x8 fir with a substantial rail ing running the full perimeter of the deck and toppe by a 2x10 cap wide enough to accommodate flowe pots and planters.

This deck is reached from the living room and from two bedrooms. It depends largely for its friendl charm on its clean, straight lines and its simplicity o

TWO SEASON LIVING

Is exemplified in this hame designed by Architect Donald S. Blair for Joseph Zeigler in the attractive Council Crest district of Portland, Oregon.

At right the contour deck creates twa separate outdoor areas.

Hard-to-handle yard corner becomes a beauty spot.

design. This deck can be reached by a sloping boardwalk from the front entrance so that guests may go directly to the patio deck without having to go through the house. This is a feature which is not too widely used, but has considerable merit.

Architect Van Evra Bailey is a great believer in decks to provide more living space for his clients. A lakeshore home designed by him for the G. V. Shaw family in Lake Oswego, near Portland (see page 15), is particularly appropriate for this setting. The deck is a rugged, serviceable structure extending the full length of the home on the lake side and has been designed for hard usage and long wear. He used 2x4s laid edgewise for the deck floor, and then extended the roof line of the home out over the entire deck to provide shelter from the rain. The exposed overhanging roof matches the deck because it has been built of solid nail-laminated 2x4s which form the entire roof structure of the home. This is a popular feature of several Van Evra Bailey homes.

Posts, capped by a 2x8 railing, form a simple divider along the front edge of the patio deck, but are not heavy enough to obstruct the view. One desirable feature about this type of covered deck is that furniture can be left outside all winter, with the possible exception of pads which might mould.

In the Portland area when you have a view lot, you generally have a home designed to provide maximum enjoyment of this feature because the vistas of mountain and river are among the most thrilling found anywhere. The Richard Billings home occupies a high promontory in the Oswego hills (see page 14), and when Architect Burton Goodrich studied the site, he decided to capitalize on the view from both inside and outside the home. Along one portion of the home, he has designed a narrow balcony which can be entered from several rooms and enables a member of the family to step out of his bedroom or the family room for a breath of fresh air.

But, opening off the living room, he built a deck of large enough size so that family and guests can enjoy the magnificent view from this height and also large enough to accommodate outside dining and full-scale parties.

This deck has a sturdy foundation, for there is a sharp drop off to the hillside below. The deck itself is constructed with 2x8 fir deck boards and the entire structure has a strong railing, also built of two-inch

SWEEPING VIEW

Beautiful view from this deck of the Richard Billings home in the Oswego Hills district of Portland, Oregon . . . an ideal spot for entertaining and two season living.

Designed by Architect Burton Goodrich.

fir to avoid any possibility of mishap. This is one of the few instances where this writer has seen decks painted, but the effect is rather pleasing. A soft yellow tone, matching the paint of the home, has been used.

We have seen decks which had sandboxes built in. Some of these sandboxes were covered with deck boards and the section covering the sandbox was hinged so that it could be tipped down to form a solid floor when the sandbox was not in use.

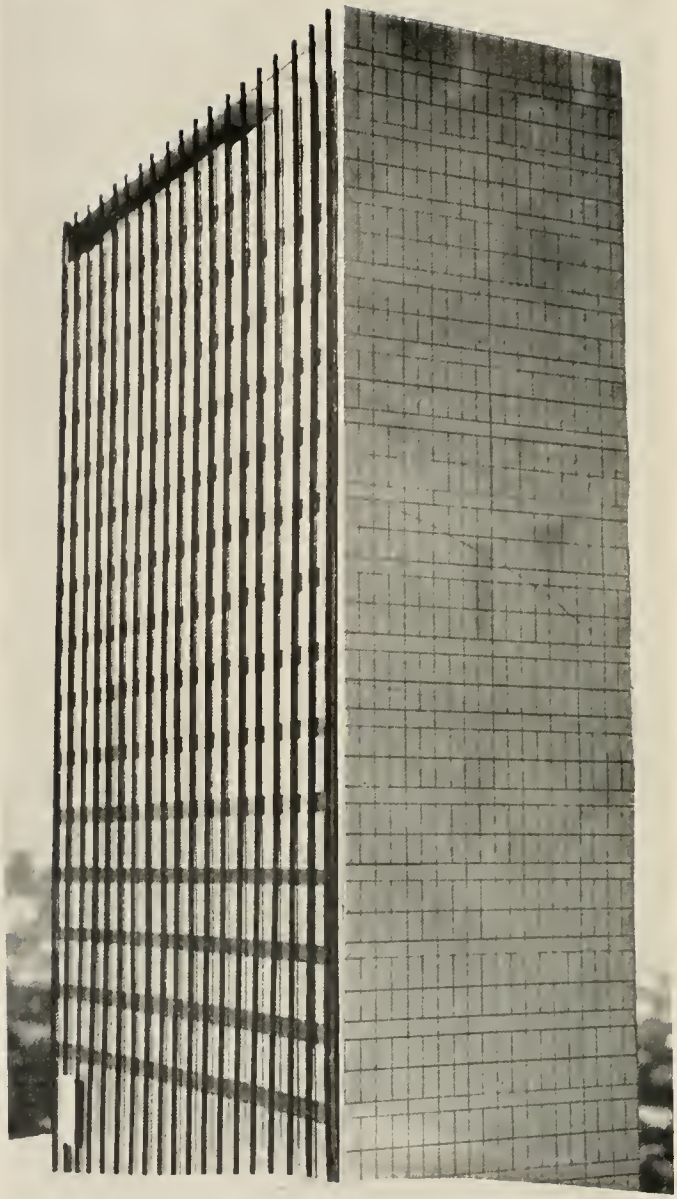
Another good idea is the deck built around an open barbecue pit. In the several deck-patios of this style, the open pit generally extends up about two feet above the deck floor. Some of the pits are circular, some are square. Some have built-in barbecue facilities and equipment, while some are merely open fire pits.

Some decks have been made most attractive by using variations of design on the running edges, some circular, some with saw-tooth edges, and some with more ornate edging.

Low cost per square foot of extra living area affords these outdoor installations one of their biggest appeals. Most architects make certain there is adequate access to the patio decks from one or more rooms of the house and, where possible, double doors or sliding doors which can be opened up to join indoor and outdoor living areas are installed. A free flow of guests from one area to the other is essential.

The deck offers the homeowner with a hillside building site an opportunity to get more living space. It is heaven-sent to the homeowner who is not a lawn-and-garden man. In rocky sites where lawns will not readily grow, it offers beauty and utility without a constant headache. The deck also is a good selling feature.

Architect Van Evra Bailey used a ship's prow overhang to shelter this sturdy deck at the G. V. Shaw home on the shores of Lake Oswego, near Portland, Oregon.



PACIFIC TELEPHONE COMPANY

NEW
MAIN EQUIPMENT
BUILDING

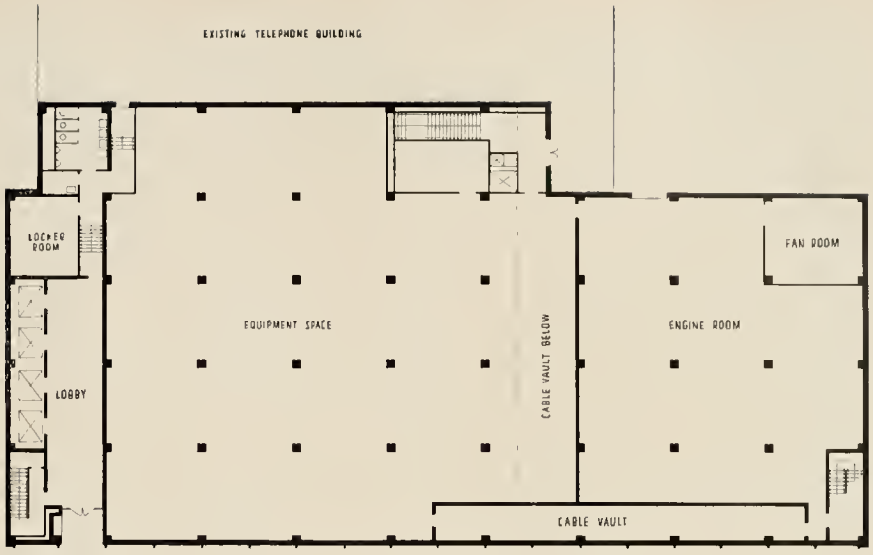
SAN FRANCISCO,
CALIFORNIA

CAHILL BROS.,
General Contractors

ALECK L. WILSON, Architect
JOHN J. GOULD and H. J. DEGENKOLB, Structural Engineers
BREWER & ASSOCIATES, Foundation Engineers
WILLIAMS & BURROWS, Foundation Engineers
LYLE E. PATTON, Electrical Engineer
BUONACCORSI & MURRAY, Mechanical Engineers
AMERICAN BRIDGE DIVISION, U. S. STEEL CORP.
Structural Steel Contractors

EXISTING TELEPHONE BUILDING First Floor Plan

BELOW: Typical Floor Plan

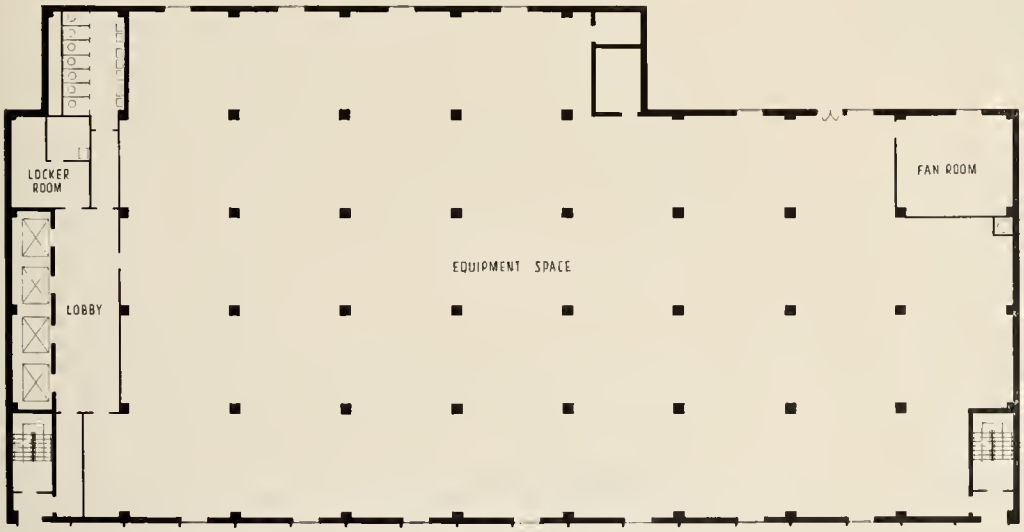


First Floor Plan Scale 0 50'

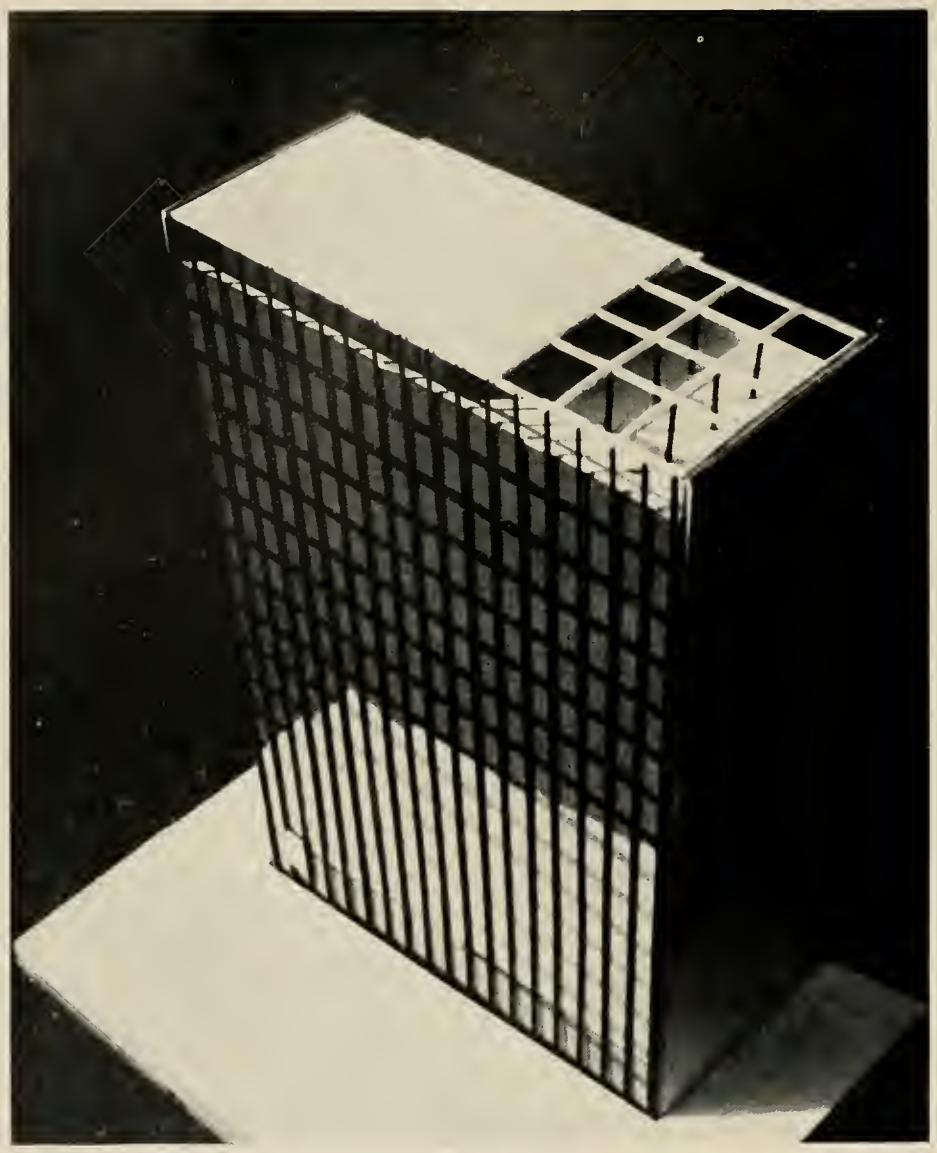
Under construction in San Francisco by Cahill Bros., Inc., General Contractors, this newest of the major buildings to be built in the City by the Golden Gate will house the main equipment of the Pacific States Telephone Company.

The structure is located in downtown San Francisco on Pine Street, south of Kearny, and although only seven stories in height at the present construction, building plans have been designed so that at some future time when need for additional space requires, the structure may be enlarged and an additional nine stories added, making it a sixteen story facility. All of the construction work is being carried out under the direction of R. C. Mosely, building engineer for the telephone company.

The program for a telephone building in downtown San Francisco is to meet requirements for adequate space for the rapidly developing and expanding modern communication equipment which is designed for local, private line, and long distance telephone services. All floors of the new structure have been designed to meet the specialized requirements of the



Typical Floor Plan Scale 0 50'



AS NEW BUILDING WILL APPEAR WHEN COMPLETED

telephone equipment and service rooms.

The building occupies a sloping site, inside a lot facing north, with the new extension connected to an existing six-story telephone building on the south. Exceptionally heavy construction is necessary to carry the equipment load and to resist seismic stresses.

Floor-to-floor heights are 18′0″ to accommodate the modern equipment requirements. To support the equipment, typical floors are designed for loads of 150 lbs. per sq. ft. The slab of the Fifth Floor, which contains extra heavy telephone power equipment, was designed to support a live load of 800 lbs. per sq. ft. The foundation is a combination of a concrete mat partially supported on caissons and spread footings.

The steel structure is shop riveted and field bolted with high strength bolts. Connections are made with welded T-sections welded and annealed to reduce residual welding stresses, all inspected and radiographed.

The exterior walls are of reinforced concrete, faced with black aluminum and adhesion type ceramic veneer. Floors are of reinforced concrete slabs with terrazzo and linoleum floor coverings. The acoustical

(See page 32)

MARIN TERRACE SCHOOL

A School Atop A Mountain

MILL VALLEY, CALIFORNIA

CORLETT and SPACKMAN, AIA, Architects
JOHN M. SARDIS & Associates, Structural Engineers
BUONACCORSI & MURRAY, Mechanical Engineers
LARRY HALPERIN, Landscape Architect

PLAY
AREA

Pitched roofs
open onto the
playground and view
of mountains
to the north.

MARIN TERRACE SCHOOL . . .

The Mill Valley School District in Marin County was fresh out of school sites that were above mean high tide or not on the fifth green of the city's cherished nine hole public golf course.

In jest, the suggestion was made that the top of a mountain might be leveled to provide an adequate site for an elementary school. Although it took considerable time to contact 68 diffrent owners of 25 foot undeveloped lots, one of whom resided in China, the site was acquired and the first four classroom increment was designed.

The site is surrounded by residential construction and commands a view of adjacent Mt. Tamalpais to the north, hence the pitched roofs opening up to the view, and happily, to ideal north light.

The staggered (offset) classrooms eliminated the normal box-like quality of a small unit and allowed for staggered access to the double loaded interior corridor.

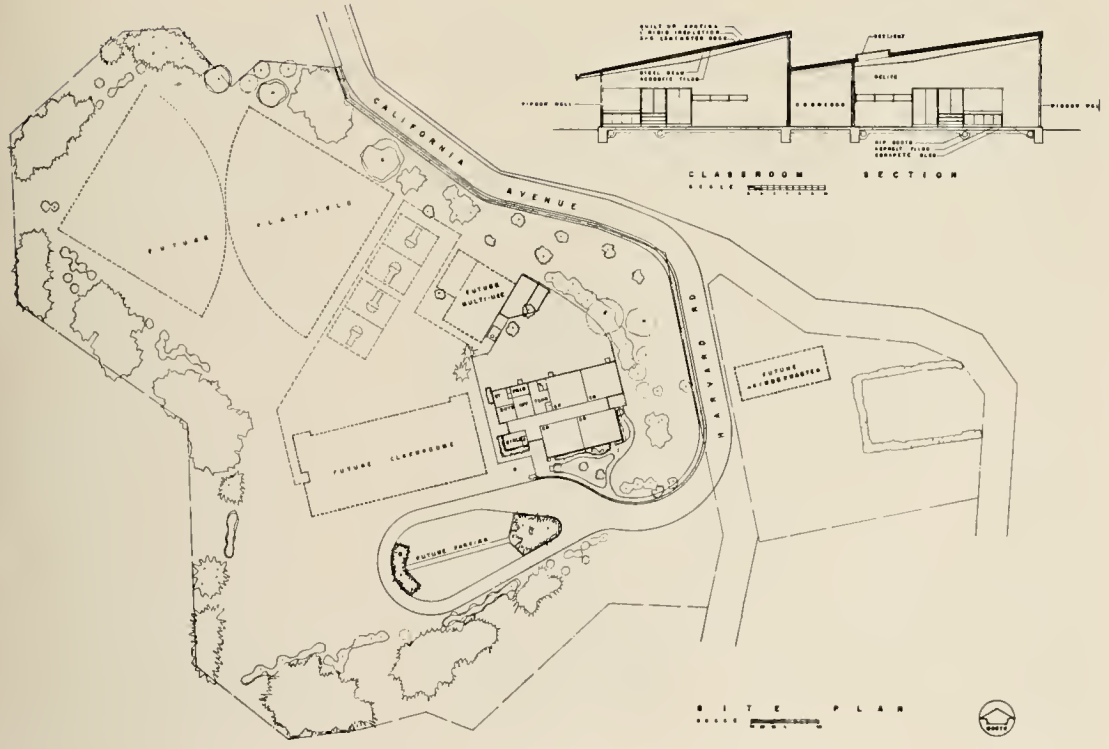
Exposed steel bents at 16 foot centers are spanned by laminated 2" x 4" decking on edge.

This primary school will shortly be expanded (under the State Aided Program) by the addition of eight more master planned classrooms and a Multi-Use Building.

PLAYGROUND AREA with classrooms to south.

TYPICAL CLASSROOM

Ceiling lighting plus open side walls provide ample light at all times, withaut glare.



AMERICAN TRUST COMPANY

BRANCH BANKING FACILITY

NAPA, CALIFORNIA

ARCHITECTS:
Corlett and Spackman, AIA

STRUCTURAL ENGINEERS:
John M. Sardis and Associates

MECHANICAL-ELECTRICAL ENGINEERS
Vandament and Darmsted

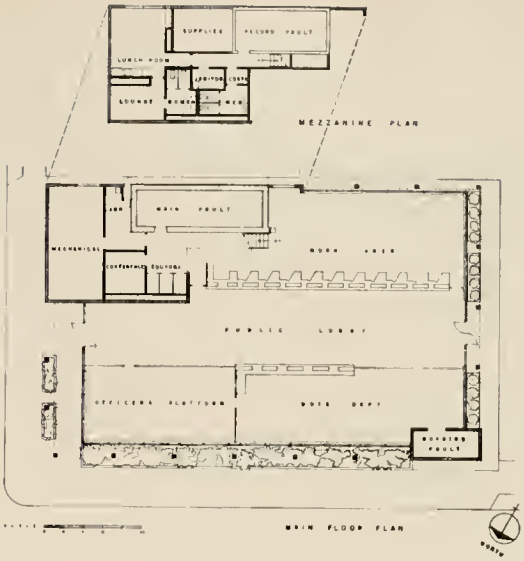
Convenience for the housewife shopper as well as the business man prompted the American Trust Company to construct their new Branch Bank in Napa on a large site with frontage on three streets.

Ample parking space and the drive-up banking window have proven most successful in overcoming criticisms leveled at their former location in the middle of downtown Napa where parking was difficult.

The building's very simple and clean design utilizes exposed box steel beams and girders completely free of perimeter curtain walls. 4" x 8" x 24" Basilite Concrete Block form the main Vault and Mechanical Room.

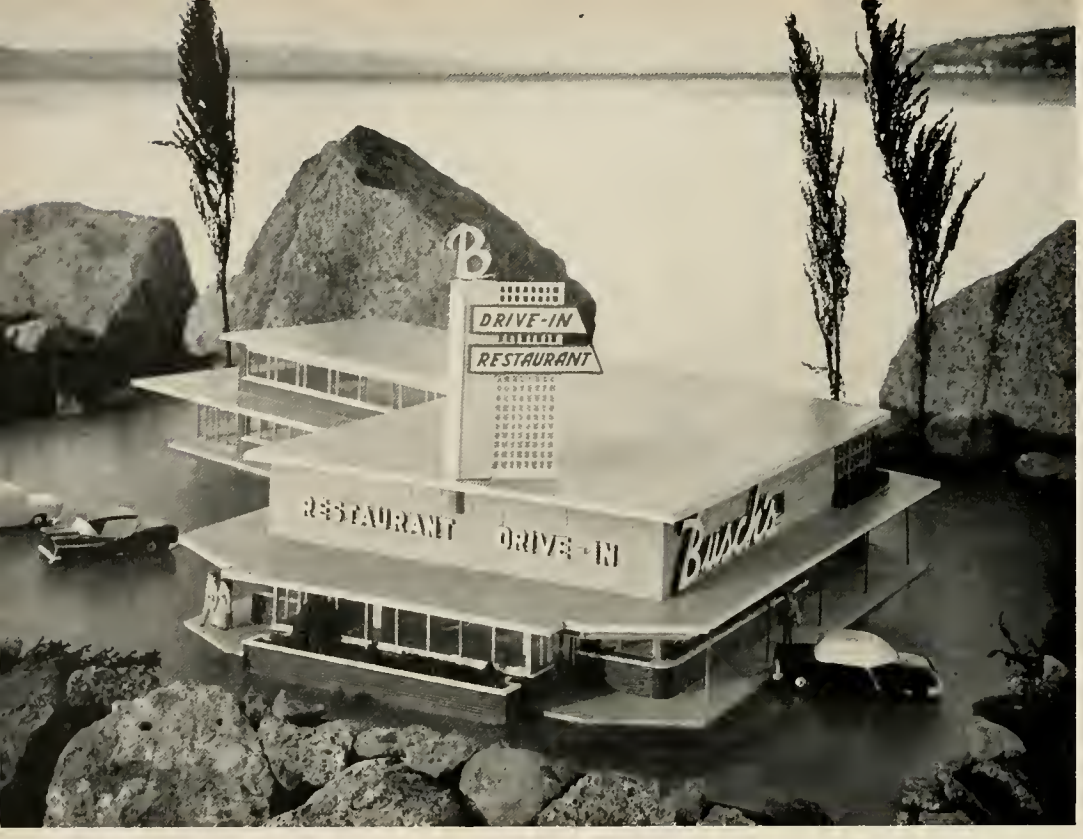
Emphasis on employee comfort was achieved by providing a lunch room, women's lounge, and men's rest room at mezzanine level above the main Vault.

The Bank's staff as well as many of their depositors have praised the warmth and openness of the public areas of this completely air-conditioned banking facility.



FLOOR PLAN

INTERIOR VIEW . . . customer area and banking facilities.



MODEL OF PROJECT

JOHN LADE, General Contractor

BUSCH'S DRIVE-IN

RESTAURANT

TACOMA, WASHINGTON

PERCY GEORGE BALL, Architect, A.I.A.

Originally constructed in the mid '30s on the present site overlooking the Sound, the frame building was almost totally destroyed by fire in 1948. In deciding to rebuild, the owner, William M. Busch, commissioned architect Percy George Ball, A.I.A., of Tacoma, to redesign the structure, and last year commissioned architect Ball to remodel the building completely.

MAIN ENTRANCE LOBBY

MAIN DINING ROOM

Finished in oak paneling and trim.

Chairs are black with cardinal red upholstery accented with gold colored studs.

Seating capacity is 43 persons.

In order to operate the business without losing a ingle day, this latest project was done under two ontracts: One in which the remodeling was done round the kitchen, putting on a new lobby, super- tructure and marquees, and under the second contract he kitchen itself was remodeled and the new dining ooms were added, together with a bakery, produce levator, walk-in boxes and ice-creamery. In addition, ien's and women's lounges were provided besides eparate toilet facilities for male and female em- loyees.

The first contract was done by the Concrete Con- truction Company, and the second was done by John ade, General contractor, Tacoma, Washington.

The outdoor signs were done under the personal upervision of Virgil Cliff, for which he was given ie Southwest Washington Chapter of The Ameri- in Institute of Architects, award for "Craftsmanship" 1 1958.

The new general dining room has twelve booths eating forty-eight guests and thirty-two stools for ounter guests. There is a small private dining room or parties of up to sixteen guests. The new dining oom will seat forty-three guests at tables, and an dditional banquest room seats forty-two guests, mak- ig a total of one hundred eighty-one capacity.

There is ample parking for two hundred fifty cars, or which curb service is provided for patrons desiring o eat in their cars.

VIEW of the Second Floor Lobby.

As General Contractors of the Beautiful New Busch's Drive-in Restaurant in Tacoma we are proud to have worked with such able associates who have contributed their talents toward making the idea of a beautiful restaurant a reality.

* * *

JOHN LADE

General Contractor

3501 North 36th

TACOMA 7, WASHINGTON

American Institute of Architects

John Noble Richards, President
Philip Will, Jr., 1st Vice-President — Edward L. Wilson, Secretary
Henry L. Wright, 2nd Vice-President — Raymond S. Kastendieck, Treasurer
Edmund R. Purves, Executive Secretary

National Headquarters—1735 New York Avenue, N.W., Washington, D. C.

REGIONAL DIRECTORS—**Northwest District,** Donald J. Stewart, Portland, Oregon; **Western Mountain District,** Frederick H. Porter, Sr., Cheyenne, Wyoming; **California-Nevada-Hawaii District,** Ulysses Floyd Rible, Los Angeles, California.

ARIZONA CHAPTERS:
CENTRAL ARIZONA: A. John Brenner, President (Phoenix); Jimmie R. Nunn, Vice-President; Kemper Goodwin, Secretary; Lester Laraway, Treasurer. Directors: James W. Elmore, Martin R. Young, Jr., David Sholder. Office of Secy., P. O. Box 904, Phoenix.
SOUTHERN ARIZONA: Edward H. Nelson, President (Tucson); Gerald I. Cain, Vice-President; Robert J. Ambrose, Secretary; David S. Swanson, Treasurer. Directors: Emerson C. Sholer, D. Burr DuBois, Santry Fuller. Office of Secy., 2447 N. Stone, Tucson.

COAST VALLEYS CHAPTER:
William L. Higgins (San Jose), President; Paul J. Huston (Palo Alto), Vice-President; William H. Daseking (Menlo Park), Treasurer; Edward N. Chamberlain (San Jose), Secretary. Office of Secy., 390 Park Ave., San Jose.

CENTRAL VALLEY OF CALIFORNIA:
Joseph J. Jozens, President (Sacramento); Armsby Tod Hart, Vice-President; Albert M. Dreyfuss, Secretary; Whitson W. Cox, Treasurer. Office of Secy., 2127 "J" St., Sacramento.

COLORADO CHAPTER:
Casper F. Hegner, President. C. Gordon Sweet, Vice President; Norton Polivnick, Secretary; Richard Williams, Treasurer. Directors: James M. Hunter, Robert K. Fuller, Edward L. Bunts. Office of Secy., 1225 Bannock St., Denver, Colorado.

EAST BAY CHAPTER:
George T. Kern, President; W. Roland Gibbs, Vice-President; Frank Lockwood, Secretary; Arthur Iwata, Treasurer. Directors: Robert J. Gianelli, Robert Oyarzo, Gerald McCue, Marjorie Montgomery, Exec. Sec'y. Office, Mezzanine, Hotel Claremont, Berkeley 5.

IDAHO CHAPTER:
Jed Jones, III, President (Boise); Clint Sundberg, Vice-President (Idaho Falls); Rod J. Grider, Sec-Treas. Director, H. Curtis Finch, Charles W. Johnston. Office of Secy., 205 N. 5th, Boise.

MONTEREY BAY CHAPTER:
Robert Stanton, President (Carmel); Walter Burde, Vice-President; William L. Cranston, Secretary; George Kuska, Treasurer. Office of Secy., P. O. Box 1846, Carmel

MONTANA CHAPTER:
William J. Hess, President (Great Falls); John E. Toohey, Vice-President (Billings); H. C. Cheever, Secy.-Treas. (Bozeman). Directors: Oscar J. Ballas, Wm. J. Hess, John E. Toohey. Office of Sec., Bozeman, Montana.

NEVADA CHAPTER:
RENO: Howard Brandis, President; Russell Clopine, Vice-President, Ralph A. Casazza, Secretary; John Crider, Treasurer. Directors: Graham Erskine, George L. F. O'Brien, Lawrence A. Gulling, Albert Alegre. Office of Secy., 232 W. 1st. St., Reno.

WOMEN'S ARCHITECTURAL LEAGUE: (Reno) Eileen Casazza, President; Jane Brandis, Vice-President; Jane Mathews, Secy., Enid Hellman, Treasurr

LAS VEGAS: Walter F. Zick, President; Aloyius McDonald, Vice-President: Edward B. Hendricks, Secy.-Treas. Directors: Walter F. Zick, Edward Hendricks, Charles E. Cox. Office of Secy., 106 S. Main St., Las Vegas.

NEVADA STATE BOARD OF ARCHITECTS:
Russell Mills, Chairman (Reno); Aloysius McDonald, Sec-Treas. Members: L. A. Ferris, Elmo C. Bruner, Edward S. Parsons. Office, 1420 S. 5th St., Los Vegas.

NORTHERN CALIFORNIA CHAPTER:
Donald Powers Smith, President; Corwin Booth, Vice-President; Joseph Esherick, Secretary; Richard S. Banwell, Treasurer. Directors: John W. Kruse, John L. King, Alexander Yuill-Thornton, Andrew Hass, May B. Hipshman, Exec.-Sec'y. Office, 47 Kearny St., San Francisco.

ORANGE COUNTY CHAPTER:
William T. Jordan, President (Costa Mesa); Donald M. Williamson, Vice-President (Laguna Beach); J. Herbert Brownell, Secretary; Rumont W. Hougan, Treasurer. Office of Secy., 1950 W. Coast Highway, Newport Beach

OREGON CHAPTER
Albert W. Hilgers, President; Robert C. Douglas, Vice-President; Everett B. Franks, Secretary; John W. Foster, Treasurer. Directors: Norman C. Zimmer, Joseph J. Rudd, John K. Dukehart, Donald W. Edmundson, Daniel McGoodwin. Office of Secy., 512 McKay Bldg., Portland 4.

1959 BRUNNER MEMORIAL AWARD TO EDWARD BARNES

Edward L. Barnes, outstanding young American architect, has been chosen to receive the 1959 Brunner Memorial Award in Architecture of the National Institute of Arts and Letters, according to an announcement by Glenway Westcott, president of the Institute.

The $1,000 Award was set up in honor of Arnold W. Brunner, a former treasurer of the Institute, himself a distinguished architect and city planner, and is awarded annually to an architect who shows promise of contributing to architecture as an art.

Barnes has undertaken a great variety of work from individual homes to large housing projects, and one of his recent notable projets is the urban renewal project in Sacramento, California, which is being done in association with the San Francisco architectural firm of Wurster, Bernardi and Emmons.

Barnes maintains general offices in New York City.

SOUTHERN CALIFORNIA CHAPTER

Proctor Melquist, editor of Sunset Magazine, was the principal speaker at a recent meeting at Lucky Baldwin's Queen Anne Cottage in Arcadia. Prior to the dinner, members enjoyed a visit to the Stuart Pharamceutical Company in Pasadena, designed by member Ed Stone. While in Arcadia, members also visited the Arboretum maintained by Los Angeles county and the State of California.

ALBERT W. HILGERS, formerly of the firm of Wick & Hilgers, has announced the opening of offices in the Portland Trust Building, Portland, Oregon, for general practice of architecture. Work currently in progress by Wick & Hilgers, will be completed by that firm.

WASHINGTON STATE CHAPTER

The 2nd Annual Joint Meeting with the Seattle Chapter-Artists Equity Association has been scheduled for this month and will feature presentation of Certificates for superior craftsmanship and for superior design and execution.

A panel discussion on "Art in Architecture—A Study of Art in the New Washington State Library at Olympia" will be held with Kenneth Callahan,

Everett DuPen, Mrs. Harlan Edwards, Seattle Councilwoman, and Paul Thiry, FAIA, chairman. Thiry was the architect for this project and was quite successful in incorporating distinguished works of art in the building. Artists DuPen and Callahan are among those whose work appears in the building.

Plans are being completed for the Architects' Bowling League for the 1959-60 season, the thirteenth under auspices of the Washington State Chapter.

NORTHERN CALIFORNIA CHAPTER

Plans for a seminar series on various phases of architectural practice have been completed by the Architectural Practice Committee of the Chapter, and will start this month.

Purpose of the series is to give younger architects and prospective architects qualified answers to the numerous questions confronting them in early years of practice.

Seminars will consist of eight weekly sessions to be held in the Chapter office, and will include such subjects as: legal phases of practice, client relations, relations with public bodies, requirements for opening an office, and various ethical aspects of practice.

TEXAS SCHOOL OF ARCHITECTURE STUDENTS DESIGN NEW BILDING

Forty University of Texas School of Architecture students have completed an investigation of a new concept in building, use of thin-shell reinforced concrete to construct "sculpture big enough to live in."

Models, drawings and data presenting the results of their research have been exhibited in the school's Architecture building. Inspiration for the study of the radically-new concrete shell came from James Buchanan Winn, Wimberley sculptor and visiting lecturer in architecture.

CALIFORNIA COUNCIL AIA

The Architects-Engineers Conference Committee of California has elected Wesley T. Hayes as 1959 chairman. Hayes is a representative of the Structural Engineers Association of California. C. Day Woodford of Los Angeles was named vice chairman. The committee was established in 1956.

"Wellsprings of Design" has been chosen as the theme of the Pacific Rim Conference to be held in Honolulu, October 7-14, 1959.

OREGON CHAPTER AIA

Ken Richardson and Don Stewart presented a preview of sketches and models of the Oregon Centennial which will be held in Portland this summer. Also displaying participation were Carl and Hilda Morris, artists for the mural in the House of Religion; James Hanson, of Hanson, Norwood and Sorenson, painters of the mural on the P.I. building; representative of the Centennial Commission, and a representative of Moffat, Nichol and Taylor, engineers for the Centennial.

PASADENA CHAPTER:
Edward D. Davies, President; Keith P. Marston, Vice-President; Ward W. Deems, Secretary; Roland L. Russell, Treasurer; and Directors: H. Douglas Byles, Leland L. Evison, Mal Gianni, and Donald E. Neptune. Office 170 E. California St., Pasadena.

SAN DIEGO CHAPTER:
Raymond Lee Eggers, President; William F. Wilmurt, Vice-President; Lloyd P. A. Ruocco, Secretary; Delmar S. Mitchell, Treasurer. Directors: John C. Deardorf, Richard George Wheeler and Sam Bruce Richards. Office of the Secy., 3603 5th Ave., San Diego 3.

SAN JOAQUIN CHAPTER:
Robert C. Kaestner, President (Visalia); William G. Hyberg, Vice-President (Fresno); Lawrence B. Alexander, Secretary; Edwin S. Darden. Office of Secy., 128 E. 8th St., Hanford.

SANTA BARBARA CHAPTER:
Wallace W. Arendt, President (Santa Barbara); Darwin E. Fisher, Vice-President (Ventura); Walter Tibbetts, Secretary; Kenneth H. Hess, Treasurer. Office of Secy., 630 Para Grande Lane, Santa Barbara

SOUTHERN CALIFORNIA CHAPTER:
Maynard Lyndon, President; A. Quincy Jones, Vice-President; Howard Morgridge, Secretary; Henry Silvestri, Treasurer. Office of Secty., 208 W. 8th St., Los Angeles.

SOUTHWEST WASHINGTON CHAPTER:
Robert Billsborough Price, President; Robert T. Olson, 1st Vice-President; Donald F. Burr, 2nd Vice-President; Percy G. Ball, Secretary; Alan C. Liddle, Treasurer; Charles T. Pearson and George Leonard Elkvall, Trustees. Office of Secy., 2715 Center St., Tacoma 2, Washington.

UTAH CHAPTER:
W. J. Monroe, Jr., President, 433 Atlas Bldg., Salt Lake City; M. E. Harris, Jr., Secretary, 703 Newhouse Bldg., Salt Lake City.

WASHINGTON STATE CHAPTER:
Harrison J. Overturf, President; Lawrence G. Waldron, 1st Vice-President; Thomas F. Hargis, Jr., 2nd Vice-President; Talbot Wegg, Secretary; David R. Anderson, Treasurer. Office of Secy., Miss Gwen Myer, Executive Secty., 409 Central Bldg., Seattle 4.

SPOKANE CHAPTER:
Wm. C. James, President; Carl H. Johnson, Vice-President; Keith T. Boyington, Secretary; Ralph J. Bishop, Treasurer; Lawrence G. Evanoff, Carroll Martell, Kenneth W. Brooks, Directors. Office of the Secy., 615 Realty Bldg., Spokane.

HAWAII CHAPTER:
Howard L. Cook, President; Douglas W. Freeth, Vice President; Francis S. Haines, Secretary; Clifford F. Young, Treasurer. Directors, Richard N. Dennis, Frank Slavsky, William D. Merrill. Office of Secretary, 1410 Kapiolani Blvd., Honolulu 14.

CALIFORNIA COUNCIL, THE A.I.A.:
Lee B. Kline, Los Angeles, President; Wayne S. Hertzka, San Francisco, Vice-President; Thornton M. Abell, Los Angeles, Secretary; Allen Y. Lew, Fresno, Treasurer. Office of the Secretary, 654 So. Saltair Ave., Los Angeles.

CALIFORNIA STATE BD. ARCHITECTURAL EXAMINERS:
Malcolm D. Reynolds, President (Oakland); Kenneth Wing, Secretary (Long Beach); Wendell R. Spackman (San Francisco); Paul Davis (Santa Ana), and Frank Cronin, Executive Secy., 1020 N St., Sacramento 14.

ALLIED ARCHITECTURAL ORGANIZATIONS

SAN FRANCISCO ARCHITECTURAL CLUB:
Orville Hickenlooper, President; Morris Barnett, Vice-President; John Beckman, Secretary; Carvel Johnson, Treasurer. Directors: Frank Barsotti, Frank Capone, Glenn Crellin, Mel Rojko. Office of Secty., 507 Howard St., San Francisco 5.

PRODUCERS' COUNCIL—SOUTHERN CALIFORNIA CHAPTER:
Clay T. Snider, President, Minneapolis-Honeywell Regulator Co., L.A.; E. J. Lawson, Vice-President, Aluminum Company of America, L.A.; E. Phil Filsinger, Secretary, Gladding, McBean & Co., L.A.; William G. Aspy, Treasurer, H. H. Robertson Co., L.A.; Henry E. North, Jr., National Director, Arcadia Metal Products, L.A.; Office of the Secy., 2901 Los Feliz Blvd.

PRODUCERS' COUNCIL—NORTHERN CALIFORNIA CHAPTER:
R. W. Harrington, President, Clay Brick & Tile Ass'n.; P. C. Christensen, Vice-President, Truscon Steel Div., Republic Steel Corpn.; Philip D. Mittell, Secretary, Otis Elevator Co.; William E. Black, III, Treas., Libby, Owens, Ford Glass Co.

PRODUCERS' COUNCIL—SAN DIEGO CHAPTER:
Eugene E. Bean, President, Fenestra Inc., James I. Hayes, Vice-President, Westinghouse Electric Co.; E. R. Shelby, Secretary, The Celotex Corp. (El Cajon); Joseph C. Langley, Treasurer, Republic Steel Corp., Truscon Steel Div. (Lemon Grove). Office of Secy., 1832 Wedgemore Rd., El Cajon.

CONSTRUCTION SPECIFICATIONS INSTITUTE—LOS ANGELES:
George Lamb, President; Herman Boisclair, Vice-President; Jack Whiteside, Secretary; Frank Rasche, Treasurer. DIRECTORS: Walter Hagejohn, Raymond Whalley, Martin A. Hegsted, Chas. F. Wetherbee, Arthur T. Raitt and E. Phil Filsinger. Advisory Member: R. R. Coghlan, Jr. Office of Secy., Box 26114, Edendale Sta., Los Angeles 22.

CONSTRUCTION SPECIFICATIONS INSTITUTE
San Francisco Area Chapter:
Leonard M. Tivol, President; Emery Theo. Hirschman, Vice-President; Roual D. Shelly, Treas.; William LaGette, Secty. Directors: Frank L. Barsotti, Herman R. Jobst, Walter M. Krohn, Charles S. Pope, Erland Sitan. Office of Secty., Kaiser Aluminum & Sales Co., 360 22nd St., Oakland 12.

WITH THE ENGINEERS

Structural Engineers Association of California
Joseph Sheffet, President; J. Albert Paquette, Vice-President; William A. Jensen, Secty.-Treas. Directors: R. W. Binder, C. M. Herd, H. J. Degenkolb, H. F. Finch, J. M. Sardis, D. M. Wilson and H. S. Kellam. Office of Secty., 64 Pine Street, San Francisco.

Structural Engineers Association of Northern California
Charles De Maria, President; Leslie W. Graham, Vice-President; Samuel H. Clark, Secty; H. Robert Hamill, Asst. Secty.; William K. Cloud, Treas. Directors: Chas. De Maria, Leslie W. Graham, Marvin A. Larson, Eric O. Moorehead, J. Albert Paquette, Donald M. Teixeira, Richard J. Woodward. Office of Secty., 417 Market St., San Francisco 5.

Structural Engineers Society of the East Bay
M. P. Superak, President; D. R. Judd, Vice-President; MacGregor Graham, Sec'y-Treas. Office of Sec'y, 1952 Wright Ave., Richmond.

Structural Engineers Association of Central California
A. L. Brinckman, President; Wendell F. Pond, Vice-President; Gordon M. Hart, Sec.-Treas.; Jack S. Barrish, Norman W. Beattie, Albert T. Brinckman, James J. Doody and Wendell F. Pond, Directors.

Structural Engineers Association of Southern California
Harold Omsted, President; Jack Sparling, 1st Vice-President; Roy Johnston, 2nd Vice-President; Marvin J. Kudroff, Secretary. C. M. Biddison, Treasurer. Directors: Carl Nelson, Irvan Mendenhall, William Ropp, Charles Peterson, Robert Wilder and Norman Green. Office of Secty., 2808 Temple Street, Los Angeles 26.

SOCIETY OF AMERICAN MILITARY ENGINEERS—San Francisco Post

Captain Viggo C. Bertelson, CES, USN, recently returned from overseas duty as officer-in-charge of construction, U. S. Military Construction in Spain, was the principal speaker at the April meeting of the Society held in the Presidio of San Francisco Officers' Club.

Capt. Berelson spoke on the "Spanish Bases Construction Program" which includes four major air stations for the U. S. Air Force, one air station for the U.S. Navy, and a supporting fuel supply complex including 485 miles of pipeline, pumping stations, and storage facilities. A series of color slides were shown depicting some of the unique engineering problems encountered in the construction effort.

BASALITE
LIGHTWEIGHT CONCRETE MASONRY UNITS
PRECISION MANUFACTURED . . .
BANK
for STRUCTURAL SUPERIORITY
Consistently high standards with never a letup . . . is your solid assurance with every BASALITE Unit, made with Basalite Lightweight Expanded Shale Aggregate. Production-line precision provides quality that meets or surpasses all Federal or ASTM requirements: high compressive strength, low absorption, negligible volume change — all in a concrete masonry unit of economical lightweight and uniform attractiveness.
BASALITE Lightweight Concrete Masonry Units are your surest guarantee of top quality. Don't settle for less.
Specify BASALITE Throughout
LIGHTER • STRONGER • BETTER
BASALT ROCK CO., INC. • NAPA, CALIF.
Member Expanded Shale, Clay & Slate Institute

THE NATIONAL SOCIETY of Professional Engineers will hold its annual meeting June 17-20 at the Commodore Hotel in New York City.

STRUCTURAL ENGINEERS ASSOCIATION NORTHERN CALIFORNIA

The regular meeting this month was devoted to the annual "Student Night" with about thirty senior civil engineering students from the University of California, Stanford, Santa Clara, and San Jose State College in attendance.

More than thirty speeches were made by members this year in connection with National Engineers' Week, throughout the metropolitan Bay area.

Recent new members include: Charles F. Moran and William P. Tenney, Members.

SAN DIEGO ENGINEERS AND SEASC HOLD SPACE PROGRAM

Harvey L. Ellsworth, Chief Administrative Engineer of Convair Astronautics, San Diego, presented a talk on "The Atlas and Outer Space Program" to a joint meeting of the San Diego Structural Engineer and the Structural Engineers of Southern California in the Rodger Young Auditorium in Los Angeles.

Mr. Ellsworth, who has been closely associated with aircraft and rocket progress since his graduation from the University of Michigan in 1939, opened the program with a newly released sound film on the Atlas Missile. This film, which may have been viewed for the first time by a non-classified audience, could easily have been a contender for an Oscar award. In full color, it gave a complete account of the planning and preparation necessary for the firing of an Intercontinental Ballistic Missile, including an actual count down and launching. Splendidly photographed and

American Society of Civil Engineers
Los Angeles Section
George E. Brandow, President; Ernest Maag, Vice-President; L. LeRoy Crandall, Vice-President; J. E. McKee, Secretary; Alfred E. Waters, Treasurer. Office of Secy., California Institute of Technology, Pasadena, Calif.
Secy.-Treas.: 4865 Park Ave., Riverside. Ventura-Santa Barbara Counties Branch, Robert L. Ryan, Pres.; Richard E. Burnett, Vice-President; George Conahey, Secy.-Treas., 649 Doris St., Oxnard.

American Society of Civil Engineers
San Francisco Section
Wm. W. Moore, President; Harmer E. Davis, 1st Vice-President; John A. Blume, 2nd Vice-President; B. A. Vallerga, Secretary; Ben C. Gerwick, Jr., Treasurer. Office of the Sec. (Mrs. Ola H. Dewell, Mgr.) Room 302, Atlas Bldg., 604 Mission St., San Francisco 5.
San Jose Branch
Stanley J. Kocal, President; Charles L. Coburn, Vice-President; Myron M. Jacobs, Secty. and Treas.

Structural Engineers Association of Oregon
Charles H. Woodworth, President; Arthur M. James, Vice-President; Cyril Burgstahler, Secy-Treas. Directors, James G. Pierson, George A. Guins, Robert M. Bonney, Albert P. Jensen, Jr. Office of Secy 717 Bd. of Trade Bldg, 310 S.W. 4th Ave. Portland 4, Oregon.

Society of American Military Engineers
Puget Sound Engineering Council (Washington)
R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer; Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials
Northern California District
R. W. Harrington, Chairman; G. L. Grieve, Vice-Chairman; R. C. Vollmer, Secretary. Office of Secty., 988 Creston Road, Berkeley 8, Calif.

American Society for Metals
Los Angeles Chapter: John E. Wilson, Chairman; Stuart K. Oliver, Vice-Chairman; H. A. Curwin, Secretary; W. V. Wood, Treasurer; K. L. Clark, Asst. Secretary. Office Secy., Earle M. Jorgensen Co.

Society of American Military Engineers—San Francisco Post
Col. Edwin M. Eads, USAF, President; C. R. Graff, 1st Vice-President; Col. Seymore A. Potter, Jr., 2nd Vice-President; Roger L. Cairns, Secretary; Donald C. Bentley, Treasurer. Directors—Col. John S. Hartnett, USA; Donald McCall; Capt. A. P. Gardiner, USN; C. Grant Austin, and Rex A. Daddisman. Office Secy. USAF, U.S. Appraisers Bldg, 630 Sansome St., San Francisco.

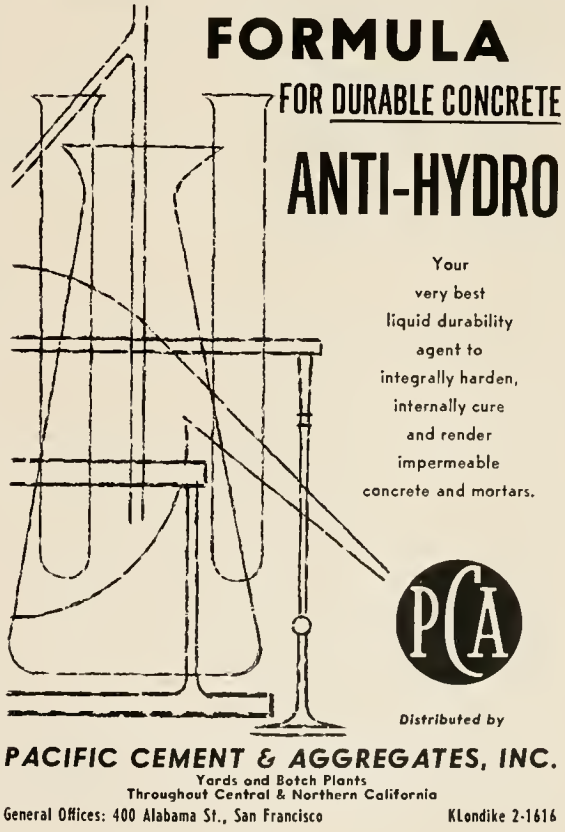
narrated, it presented a most dramatic side of missile work.

Coming down to earth, Mr. Ellsworth elaborated on the vast scope of men and equipment necessary for any such effort. Besides Convair Astronautics it takes some 2,000 subcontractors to do all the necessary related work and development associated with a launching. It should be noted that many phases of the work, launching platforms, test stands, missile supports, etc. were created and designed by many of the structural engineers in the audience.

Touching briefly on the history of the missile development, Ellsworth stated that the conception of the Atlas Missile was first made in 1946. In that year the United States Air Force awarded Convair the first research and development contract in a program to develop a missile capable of carrying a warhead 5,000 miles (at that time the only long-range rocket was the 200 mile German "V-2"). Unfortunately, in 1947 the Defense Department economy cutback led to the shelving of ICBM development. This, however, was short lived since the Korean conflict later brought increased military appropriations and renewed ICBM work. The ballistic missile program was also helped by a U. S. Thermonuclear break-through (smalled and more powerful warheads) in 1952 and 1953 after which, on a full "crash" program, development progressed until fabrication of the Atlas was realized in 1955. In the fall of 1956 the first completed missiles were delivered.

By means of a chart showing the evolution of missiles from the "Vanguard" through the present "Atlas" and to the future "Cluster" (several missiles working together), the sepaker indicated that interplanetary travel was soon to be realized. Even now, by clustering several Atlas missiles, sufficient thrust is available to reach other planets in our solar system. It was noted that by utilizing the space boosters jettisoned from missiles as space stations, a habitat for men in space is provided. A model of such a booster was on display.

An interesting sidelight in the launching of test missiles is the equipment utilized in telemetering flight


FORMULA
FOR DURABLE CONCRETE
ANTI-HYDRO
Your very best liquid durability agent to integrally harden, internally cure and render impermeable concrete and mortars.
PCA
Distributed by
PACIFIC CEMENT & AGGREGATES, INC.
Yards and Batch Plants Throughout Central & Northern California
General Offices: 400 Alabama St., San Francisco
KLondike 2-1616

information to earth over neardy 50 channels. This information recorded on some ten miles of magnetic tape for each flight includes temperatures, vibration, accelerations, liquid flow rates, etc. By means of replaying the tapes, the complete flight pattern can be resimulated many times and the causes of any malfunction isolated so that future flights and missiles can be corrected.

Many other aspects of missile development were discussed. The use of space stations in communications was touched upon. By means of these stations, it will be possible to cover a greater area at less cost than present communicative means. Likewise, space stations can serve as extremely fine weather indicators. A much greater degree of accuracy in predicting weather will be possible.

Coming to the "why" of space development and travel, Mr. Ellsworth called attention to the fact that when the wheel was developed no road existed; likewise, of the other three "original" inventions of man; namely, ship, engine, and machine, no practical reason existed at the time for those original inventions. Therefore, we can only speculate now on the use of present missile development. In this regard, and with space exploration in mind, the National Aeronautics and Space Administration, in November, 1958, announced a comprehensive development program, "Project Mercury", culminating in the orbiting and recovery of a man-space capsule. Atlas was selected to place this capsule in orbit. Who knows what these explorations will lead to.

Mr. Wayne Watkins, Past President of the Structural Engineers of San Diego, spoke briefly on the activities in their area and introduced several new structural engineers from San Diego. Thomas G. Atkinson, this year's President and spokesman for the San Diego group, introduced the speaker. This very successful first joint meeting between the San Diego Engineers and the Structural Enigneers Association of Southern California was arranged by the San Diego engineers.

ALL COMMON BRICK USED
IN THE NEW
Stanford Research Institute Building

STANTON AND STOCKWELL, *Architects*

WILLIAMS & BURROWS, *General Contractors*

L. P. McNEAR BRICK COMPANY

COMMON AND JUMBO BRICK

GLenwood 4-6811

P. O. BOX 119 **SAN RAFAEL, CALIF.**

STRUCTURAL ENGINEERS ASSOCIATION NORTHERN CALIFORNIA

Dr. S. Olof Asplund, Professor of Structural Mechanics, Chalmers University, Gothenburg, Sweden, and visiting Professor at the University of California in Berkeley, recently spoke on two subjects: first "The Elevation of an Elevated Water Tank", and second "Design of Short Flexible Suspension Bridges for Heavy Trucks."

New members include: Peter Barnard, Junior Member; Robert S. Cooper, Donald J. Croft, Raymond W. Little, Richard A. Parmelee, and Freemont W. Slattery, Members; John R. Dawe, Affiliate Member.

JOHN CARL WARNECKE, San Francisco architect has won top honor in a national school and college building design competition held in New York City. He was honored for his design of a student residence hall completed during 1958 on the campus of the San Francisco Theological Seminary at San Anselmo. The competition was open to all architectural firms in the United States and Canada which had designed school and colleges that were under construction in 1958. More than 144 firms submitted some 148 entries.

WILLIAM P. RUS, former resident manager on two San Francisco Bay Area large construction projets, has opened offices at 136 Hamilton Avenue in Palo Alto. A graduate of the University of California in Civil Engineering and Business Administration, Rus also holds a California license as a general engineering contractor and a supplemental license as a general building contractor.

SOUTHWEST REGIONAL MEETING OF MILITARY ENGINEERS

Military, civic, industrial, and educational leaders and members of the American Military Engineers, recently attended a Southwest Regional Meeting in the Hilton Hotel, San Antonio, Texas.

Col. Carl Y. Farrell, President of the San Antonio Post, presided at the meetings devoted to technical military problems in construction. Highlight of the meeting was an address by the Honorable Price Daniel, Governor of Texas.

JUVENILE HALL IS PLANNED FOR SAN RAFAEL

Architect Roland B. Hammond, 530 3rd Street, San Rafael, is preparing plans and specifications for construction of a new Juvenile Hall of two units and forty beds in San Rafael, for the County of Marin.

WATSONVILLE WILL HAVE NEW ELKS LODGE BUILDING

The architectural firm of Wallace Holm & Associates, 321 Webster Street, Monterey, is preparing drawings for construction of a new B.P.O.E. Elks Lodge Building in Watsonville, at an estimated cost of $175,000.

The new building will be of wood frame, wood laminated beams, shake roof and masonry exterior construction.

KAISER ALUMINUM WILL MOVE ITS CHICAGO OFFICES

Kaiser Aluminum & Chemical Corporation announced recently that it plans to move its general sales offices from Chicago to Oakland, California, in the near future.

In anticipation of the forthcoming move the company more than a year and a half ago established six regional sales managers in close proximity to major market centers with broad authority to make decisions involving customer service. These regional managers direct the efforts of 18 district and 35 branch sales offices located in important industrial cities.

The company plans to retain in Chicago its present regional and district sales headquarters, and to maintain an executive office there.

CHURCH PLANS NEARING COMPLETION

The architectural firm of Arnold & Francis Constable, 95 Spencer Avenue, Sausalito, is completing drawings for construction of a new Star of The Sea Church in Sausalito, California, for the Archdiocese of San Francisco.

The new Church building will feature a 75 ft. spire, will seat 500 persons, and will be of wood frame and stucco construction. Estimated cost of the work is $200,000.

APPOINTED SALES REPRESENTATIVE OF CASH VALVES

Sales Engineers Limited, 7919 Montrose Street, Paramount, California, have been appointed industrial factory representative of A. W. Cash Valve Mfg. Co., for Southern California, Nevada, and Arizona, according to a recent announcement.

ARCHITECTS STUDY PUERTO RICO SCHOOL

A special committee of The American Institute of Architects has been appointed at the request of Chancellor Jaime Benitez to study the feasibility of opening a school of architecture at the University of Puerto Rico.

Headed by A.I.A. President John Noble Richards, the committee has conducted a five-day on-the-spot investigation to determine the need for and advisable nature of such a school. It found a critical shortage of architects on the island and remarkable progress in Puerto Rico's social, economic and physical planning procedures.

The A.I.A. committee's recommendations will be submitted to Chancellor Benitez in time for the opening of the new session of the Puerto Rico legislature in May.

SMALL BOAT HARBOR FOR VENTURA

The Ventura Board of Port Commissioners has announced that construction bids for the nine million dollar, 2100-boat small craft harbor at Pierpont Bay will be opened in late June, and that the harbor will be in operation by late 1960.

John A. Blume & Associates, Engineers of San Francisco, are in charge of the over-all planning and design of the project, which will occupy a 300 acre site and is the first in the state to benefit from the passage of Proposition 4 during the last state elections.

The 2100-boat capacity of the Ventura Marina would make it the largest of its type in the state to be built at one time as a single unit. Included in the project are boat berths, adjacent auto parking areas, boat launching facilities, a 100 unit "Botel," house trailer accommodations, shopping center, yacht club, restaurants, Coast Guard facilities, fuel docks and ship chandleries.

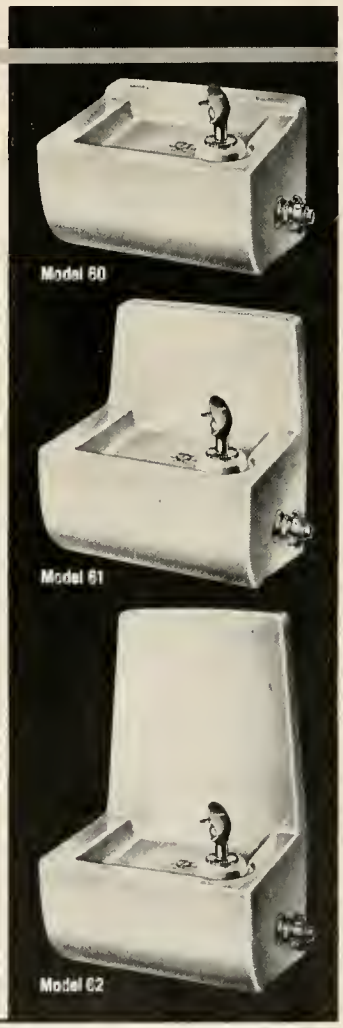
FOUR DISTINCTIVE HAWS FOUNTAINS SMARTLY STYLED IN VITREOUS CHINA

HAWS

"The Series 60"... refreshing new styling with the durable beauty of gleaming vitreous china, permanently in good taste. All are wall-hung models, based on the same appealing design. Choose the model that best fits your plans... or choose several to complement each other in varied locations. Sanitation? Only HAWS has the exclusive M fountain head... raised, shielded, anti-squirt angle stream. Automatic flow control, too. Get detailed specs from HAWS. Write today.

Model 62-GF: HAWS glass filler faucet installed on back of Model 62, for double-duty convenience.

Ask for your free copy of the new HAWS Catalog.



HAWS DRINKING FAUCET COMPANY

1441 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

NEWS AND COMMENT ON ART

(From page 6)

Miniatures" from the collection of K. Demirdjian, lent by A. Demirdqian.

EVENTS: "Paul Cezanno—Contemporary of Van Gogh"—a series of three illustrated lectures relating to the recent Van Gogh Exhibition, by Charles Lindstrom, Education Director of the Museum; "Flowers with Art" presented by the San Francisco Garden Club in the William Randolph Hearst Memorial Court; and other special features of Art for the adult and children.

The Museum is open Daily.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, under the direction of George Culler, Associate Director and Director Elect, will feature a number of outstanding Exhibitions this month, including the following:

EXHIBITS: The "Richard Neutra Retropective Exhibition", organized by Frederick S. Wight for the University of California in Los Angeles, it is a biography of the architect, using photographs, automatic projections, and Neutra's own writings to survey his career. The "78th Annual Painting and Sculpture Exhibition of the San Francisco Art Association;" "Japanese Children's Art" an exhibit of woodcuts by Japanese school children reflecting their impressions of life in Japan; "Paintings in Post-War Italy," showing the best of recent Italian painting, selected under the direction of Lionello Venturi and circulated by the American Federation of Arts; and "Italian Prints from the Museum and Private Collections," a footnote to the exhibition of Italian painting, reflecting local interest in recent Italian graphic work. "Lumia, The Art of Light" is a new art and the exhibt is lent to the Museum by the Art Institute of Light, representing a theme with 449 variations with the medium of expression being light, in form, color, and motion.

SPECIAL EVENTS: A lecture by Mr. Richard Neutra on May 15, 8.30 p.m.; Gallery Tours and lectures; Music and Recitals; Motion Picture films and special Gallery and Lecture Tours by George Culler, Associate Museum Director.

The Museum is open Daily.

PALO ALTO ARCHITECT ON LECTURE TOUR

Ernest J. Kump, Palo Alto architect and lecturer, left the latter part of April on a ten-day lecture tour which will include university audiences at Salt Lake City, New York and Cambribge, Massachusetts.

He will lecture on the subject "Russia and Architecture". While in New York, Kump will address a conference of east coast junior college presidents and deans on "School Planning at the College Level."

PHOTO CREDITS: Homemakers Institute, Page 8 top; 14; Photo-Art Commercial Studio, Page 8 bottom, 10 bottom; West Coast Lumbermen's Ass'n, Pages 9, 10 top, 11, 13, 15; Ernest Braun, Photographer, Pages 21, 22, 23, 24, 25; Richards Photo's Pages 24, 25. COVER PHOTO by Ernest Braun.

EAST BAY CHAPTER

Dean William W. Wurster, University of California at Berkeley, was the principal speaker at a recent meeting at which the WAL and high school competition winners were in attendance and were presented with WAL awards by president Lorraine Osmundson.

The May meeting will be a joint meeting with the Structural Engineers Association, with U. S. Barbachano, architect and Pete Graham, engineer, planning the meeting.

1960 NATIONAL AIA TO MEET IN SAN FRANCISCO

The theme and program for the 1960 National American Institute of Architects annual convention has been approved by the Executive Board of the Institute.

The meeting will be held the week following Easter of 1960.

H. ALDWORTH CHRISTIAN, noted store planner, has joined Charles Luckman Associates as vice-president in charge of retail store interiors and planning divisions, according to Charles Luckman, president of the Los Angeles planning-architectural- engineering firm.

SAN FRANCISCO ARCHITECTURAL CLUB

Members enjoyed a "field" trip to the Columbia-Geneva Steel Division, U.S. Steel Corp'n plant at Pittsburg recently, making the trip from San Francisco by bus. Guild tours of the plant disclosed many interesting phases and features of the manufacture of steel and steel products.

TELEPHONE BUILDING

(From page 18)

ceilings are uniform throughout the building.

Five-ply built-up coal tar pitch and gravel comprise the roof, while all windows are pivoted aluminum. Metal stud partitions together with metal lath and plaster comprise the partitions. All doors are hollow metal.

Heating has been provided by connections with boilers in the adjoining building. Mechanical refrigeration has been provided on all floors to remove excessive equipment heat gain. Centrifugal compressors are provided in the basement for circulating chilled water to cooling coils in air handling units located on each floor.

BOOK REVIEWS
PAMPHLETS AND CATALOGUES

BIBLIOGRAPHY OF ENGINEERING SEISMOLOGY. Second Edition. By Edward P. Hollis, 1958. Earthquake Engineering Research Institute, 465 California Street, San Francisco. Cloth, 144 pages. Price $4.50.

This bibliography contains over 2000 entries and cross references. Most of the more important works are annotated. It is a very thorough coverage of the English language literature as well as a good representation of the Japanese, Russian, and other foreign language publications. It is of major importance to all doing research and development work in any phase of earthquake engineering. The practicing consulting engineer will find it useful in studies of the earthquake hazard.

BIBLIOGRAPHY OF EFFECTS OF SOIL CONDITIONS ON EARTHQUAKE DAMAGE. By C. Martin Duke, 1958. Earthquake Engineering Research Institute, 465 California Street, San Francisco. Paper, 47 pages. Price, $1.00.

This is a very detailed bibliography in this important field, and over 275 specific entries are included. All items are well annotated, which makes the publication quite useful when searching for specific topics. Much of the little known Japanese research is brought to light, some of it for the first time to the English reader.

ROOFING—Estimating, Applying, Repairing. By James McCawley. Shelter Publications, 180 N. Wacker Drive, Chicago 6, Ill. Illus. 440 pp. Price $10.00.

The author, a former roofing contractor, vocational teacher and for 13 years, secretary National Roofing Contractors' Association, describes the book as, not only a compendium of fact, but of opinion, and he has been sparing of his opinions on what he considers poor design of roofing, parapet walls, expansion joints, flashings and other building sections associated with roofing. The verbal spankings administered to architects should result in mixed emotions among architect readers, however, the author concludes that most design errors result from the failure of the different components in the construction industry, architects, contractors and manufacturers to cooperate in the design and assembly of roofing "sandwiches" in which the deck, insulation and covering are compatible.

Although primarily prepared for the contractor and applier of roofing materials, the information between the covers should provide food for thought on the part of all those concerned with the design, manufacture and application of roofing.

A LIVING LIBRARY. By Martha Boatz. University of Southern California Press, University Park, Los Angeles 7. Illus. 84 pp. Price $2.25.

Represents papers presented at an Institute on Public Library Architecture conference on planning public library buildings for cities of 100,000 population, or less, sponsored by the School of Library Science held at the University of Southern California, Los Angeles, on April 25-26, 1957. Due to the fact that the papers were prepared by different people and were given within the framework of an Institute meeting, there is a great variety in presentation and style, and yet the information contained is helpful to people faced with the problem of planning a public library building.

NEW CATALOGUES AVAILABLE

Architects, Engineers, Contractors, Planning Commission members—the catalogues, folders, new building products material, etc., described below may be obtained by directing your request to the name and address given in each item.

Electrical raceway fittings. New 6-page bulletin on "Spang" electrical raceway fittings for communication and power distribution systems; new designs combining inconspicuous modern styling with provisions for fast installation and long life are illustrated; including new square, rimless floor pan that leaves a smooth, unbroken pattern on tile floors. Free copy write DEPT-A&E, National Supply Center, 2 Gateway Center, Pittsburgh 22, Pa.

"AMERICAN-MARSH"
CONDENSATION UNIT
Durable — Economical
Stocked Locally
Please contact us for information on All Pumping Problems.
— CALL —
SIMONDS MACHINERY CO.
DOUGLAS 2-6794
816 Folsom St. San Francisco
SIMONDS FOR PUMPS

HAAS and HAYNIE
Formerly Haas Construction Company
Since 1898
275 PINE ST.
SAN FRANCISCO, CALIF.
Phone DOuglas 2-0678

JUDSON PACIFIC-MURPHY CORP.
Steel Fabricators
and
Erectors
REINFORCING STEEL
STRUCTURAL STEEL
BRIDGE CRANES
4300 EASTSHORE HWY.
EMERYVILLE, CALIF.
Phone:
OL 3-1717

Western Distributors
Herring-Hall Marvin Safe Company
Hamilton, O.
DESIGNERS • MANUFACTURERS
SAFES • VAULTS • MONEY CHESTS
FEDERAL BURGLAR ALARMS
THE HERMANN SAFE CO.
1699 Market St., San Francisco 3, Calif. Tel.: UNderhill 1-6644

The Most Complete Line of
STEELS and STEEL BUILDING MATERIALS
Made by a Single Producer

REPUBLIC STEEL

See Sweet's Catalog File or write us for full information.

REPUBLIC STEEL CORPORATION
GENERAL OFFICES: CLEVELAND, OHIO

DENVER, COLORADO . . . . CONTINENTAL OIL BUILDING
LOS ANGELES, CALIF. . . GENERAL PETROLEUM BUILDING
SAN FRANCISCO, CALIFORNIA . . . . RIALTO BUILDING
SEATTLE, WASH. . . . . WHITE-HENRY-STUART BUILDING

PACIFIC MANUFACTURING CO.

High Class Interior Finish Quality Millwork

16 Beale St., San Francisco
GArfield 1-7755

2115 "J" Street — **Sacramento**
GIlbert 2-7633

3345 Leonis Blvd. — **Los Angeles**
LUdlow 5-1211

2610 The Alameda — **Santa Clara**
AXminster 6-2040

VERMONT MARBLE COMPANY

DOMESTIC AND IMPORTED MARBLES
GRANITE VENEER

VER-MYEN Serpentine for Laboratory Equipment

6000 THIRD STREET • SAN FRANCISCO 24, CALIF.
Phone: VAlencia 6-5024

3522 COUNCIL STREET • LOS ANGELES 4
Phone: DUnkirk 2-6339

FORDERER CORNICE WORKS

Manufacturers of

Hollow Metal Products • Interior Metal Trim
Elevator Fronts and Cabs
Metal Plaster Accessories • Sanitary Metal Base
Flat and Roll Metal Screens
Metal Cabinets • Commercial Refrigerators

269 POTRERO AVE.

SAN FRANCISCO, CALIF. — **HEMLOCK 1-4100**

Color selector. Describes and illustrates (AIA File No. 35-C-12) the Nevamar line of colorful and carefree high pressure laminates; builders, architects, cabinet makers, manufacturers, and homemakers will find this pamphlet useful in selecting the right pattern or wood-grain for the particular application involved. Free copy write DEPT-A&E, The National Plastic Products Co., Odenton, Maryland.

Oil free compressors. New bulletin describes heavy-duty industrial "Joy" oil-free compressors; 14 sizes of compressors; part-designated section drawings, installation photos and special section on "T-Block" design compression ring. Free copy write DEPT-A&E, Joy Mfg. Co., Oliver Bldg., Pittsburgh 22, Pa.

Aircraft hangar heating. New 20-page illustrated bulletin describes aviation hangar heating installations utilizing overhead revolving discharge heaters; discusses problems and solutions in hangar heating, shows typical installations graphically illustrated, offers typical layouts and gives engineering data. Free copy write DEPT-A&E, L. J. Wing Mfg. Co., Linden, New Jersey.

Elevated flooring. New, illustrated brochure on elevated aluminum flooring for computer rooms and other business machine areas: illustrates and describes and contains drawings, architect's specifications, typical installations and elevations, and support assembly. Free copy write DEPT-A&E, Liskey Aluminum, Inc., Box 506, Glen Burnie, Md.

Soap dispensing equipment. New 20-page catalog (AIA File No. 29-i) describes an extremely broad array of soap dispensers and valves, both liquid and lather types; various sizes, metal, vandal-proof construction; wall mounted and lavatory mounted; soap tanks; fittings and valves; special section on technical data on typical gravity feed soap systems. Free copy write DEPT-A&E, Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 48, Ill.

Nine ways to better concrete. New brochure (AIA File No. 3-B-2) devoted to simplifying the complexity of concrete production, contains a concise analysis of the nine vital factors governing the production of high-quality concrete. Charts, graphs, photos based upon field laboratory tests, show how the use of Pozzolith will give concrete increased flexual, bond and compressive strength; effective entrained air; increased worability and durability; reduced shrinkage and permeability; initial retardation and resistance to scaling. Free copy wrie DEPT-A&E, The Master Builders Co., Cleveland 3, Ohio.

Porcelain enamel curtain walls. New four-page data sheet (AIA File No. 15-H-2) on porcelain enamel and porcelain enameled stainless steel curtain walls; covers such subjects as office buildings, commercial buildings and elementary schools; design structural data and cost data, photographs, plans, details and other information. Free copy write DEPT-A&E, Armco Steel Corpn., Middletown, Ohio.

Condulets for corrosive locations. New 16-page bulletin describes and explains many different conditions causing corrosion; properties of various metals and finishes; simple charts showing applications; also contains formal listings of Plast-A-Coat condulets for hazardous and non-hazardous locations. Free copy write DEPT-A&E, Crouse-Hinds Co., Syracuse 1, N.Y.

Longer concrete floor life. Twenty-four page booklet, describes how concrete floors may be treated to last six times longer than ordinary concrete floors; also discusses major features sought in the design of any industrial floor subject to heavy use, wear and corrosion resistance, economy, spark resistance, static-dissemination, color, non-slip, non-dusting, and easy-to-clean surfaces; many photographs, diagrams and detailed explanations covering method of installing. Free copy write DEPT-A&E, The Master Builders Co., Cleveland 3, Ohio.

Felt swatch folder. New swatch folders are available now to all manufacturing and industrial organizations: Industrial folder includes wool felts and synthetic fibre felts, with information pertaining to functional advantages and special applications; Fashion felt color chart and swatch folder displays more than 70 colors. Free copy write DEPT-A&E, Continental Felt Co., 22 West 15th St., New York 11.

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY LeROY CONSTRUCTION SERVICES. 4% SALES TAX ON ALL MATERIALS BUT NOT LABOR. ITEMS IN ITALIC INCLUDE LABOR AND SALES TAX.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor and Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK & MASONRY

COMMON BRICKWORK, Reinforced:
- *8" walls* ..... SF 3.15
- *12" walls* ..... SF 4.40

SELECT COMMON, Reinforced:
- *8" walls* ..... SF 3.25
- *12" walls* ..... SF 4.50

CONCRETE BLOCK, Reinforced:
- *6" walls* ..... SF 1.60
- *8" walls* ..... SF 1.75
- *12" walls* ..... SF 2.15

BRICK VENEER:
- *4" Select Common* ..... SF 1.85
- *4" Roman* ..... SF 2.75
- *4" Norman* ..... SF 2.65
- *4" Aggrelite* ..... SF 2.65

BRICKWORK & MASONRY

All Prices—F.O.B. Plant.

COMMON BRICK
- Common 2½ x 3¾ x 8¼ ..... M 48.00
- Select 2½ x 3¾ x 8¼ ..... M 55.00
- Clinker 2½ x 3¾ x 8¼ ..... M 55.00
- Jumbo 3½ x 3 x 11½ ..... M 79.00

FACE BRICK
- Standard ..... M 59.80 - 83.20
- Jumbo ..... M 114.40 - 130.00
- Roman ..... M 88.40 - 109.20
- Norman ..... M 101.40 - 124.80
- Brik Blox (6") ..... M 202.80
- (8") ..... M 239.20
- Braile Veneer ..... M 26.00

BUILDING TILE
- 8 x 5½ x 12 inches ..... M 165.78
- 6 x 5½ x 12 inches ..... M 128.96

HOLLOW TILE
- 12 x 12 x 3 inches ..... M 163.12
- 12 x 12 x 4 inches ..... M 184.18
- 12 x 12 x 6 inches ..... M 244.71

MANTEL FIRE BRICK
- 2½ x 9½ x 4½ inches ..... M 140.40

GLAZED STRUCTURAL UNITS
- 2 x 6 x 12 Furring ..... SF 1.00
- 4 x 6 x 12 Furring ..... SF 1.50
- 6 x 6 x 12 Furring ..... SF 2.05
- 4 x 6 x 12 Partition ..... SF 1.85
- Add for color ..... SF .25

CONCRETE BLOCKS
- 4 x 8 x 16 inches ..... EA .23
- 6 x 8 x 16 inches ..... EA .28
- 8 x 8 x 16 inches ..... EA .32
- 12 x 8 x 16 inches ..... EA .48
- Colored Add ..... EA .02

AGGREGATE—Haydite or Basalite
- All sizes in bulk ..... CY 6.45

BUILDING PAPERS & FELTS

- 1 ply per 1000 ft. roll 4.20
- 2 ply per 1000 ft. roll 6.40
- 3 ply per 1000 ft. roll 8.75
- Sisalkraft, reinf. 500 ft. roll 8.00

SHEATHING PAPERS:
- Asphalt sheathing, 15-lb. roll 2.55
- 30-lb. roll 3.58
- Dampcourse, 216-ft. roll 3.07

FELT PAPERS:
- Deadening felt, ¾ lb., 50 ft. roll 4.12
- Deadening felt, 1 lb., 50 ft. roll 4.80
- Asphalt roofing, 15-lb. 2.58
- 30-lb. 3.58

ROOFING PAPERS:
- Standard Grade, Smooth Surface
- 108 ft. roll, Light, 45 lb 2.37
- Medium 55 lb. 2.76
- Heavy 65 lb. 3.36
- Mineral Surfaced 3.75

CHIMNEYS, PATENT

F.O.B. Warehouse
- " ..... LF 1.45
- " ..... LF 2.05
- " ..... LF 2.85
- " ..... LF 3.45

Rates for 10 - 50 Lin. Ft.

CONCRETE AGGREGATES

	Bunker Per Ton	Del'd Per Ton
Gravel, All Sizes	3.25	4.00
Top Sand	3.45	4.20
Concrete Mix	3.35	4.20
Crushed Rock		
¼" to ¾"	3.30	4.20
¾" to 1½"	3.30	4.20
Roofing Gravel	3.46	4.15
SAND		
Lapis (Nos. 1 & 2)	4.50	5.30
Olympia (Nos. 1 & 2)	3.60	4.15

CEMENT
- Common, All brands (Paper sacks)
- Small quaotities, ... Per Sack 1.45
- Large quantities, ... Per bbl. 4.54
- Trinity White & Mendusa White ..... Per Sack 4.00

CONCRETE MIX
- 6 sacks in 5-yd. loads ..... Per yard 15.65

CURING COMPOUND, Clear
- 5 gal drums ..... Per Gal. 1.46

CARPENTRY & MILLWORK

Hardware not included

FRAMING:
- *Floors* ..... BM .22 - .27
- *Walls* ..... BM .28 - .32
- *Ceilings* ..... BM .22 - .27
- *Roofs* ..... BM .25 - .30
- *Furring & Blocking* ..... BM .30 - .50

SHEATHING:
- *1 x 8 straight* ..... BM .20 - .25
- *1 x 8 diagonal* ..... BM .23 - .28
- *5/16" Plyscore* ..... SF .16 - .20
- *⅜" Plywood* ..... SF .25 - .30

SIDING:
- *1 x 8 Bevel* ..... BM .35 - .40
- *1 x 4 V-Rustic* ..... BM .40 - .45

EXTERIOR TRIM:
- *Fascia and Molds* ..... BM .40 - .50
- *Bolted Framing—Add 50%*

ENTRANCE DOORS & FRAMES:
- *Singles* ..... 60.00 & Up
- *Doubles* ..... 100.00 & Up

INTERIOR DOORS & FRAMES:
- *Singles* ..... 35.00 & Up
- *Pocket Sliding* ..... 45.00 & Up
- *Closet Sliding (Pr.)* ..... 50.00 & Up

WINDOWS:
- *D/H Sash & Frames* ..... SF 1.95 & Up
- *Casement Sash & Frames* ..... SF 2.20 & Up

SHELVING:
- *1 x 12 S4S* ..... BM .30 - .50
- *¾" Plywood* ..... SF .40 - .60

STAIRS:
- *Oak steps D.F. Risers*
- *Under 36" wide* ..... Riser 13.50
- *Under 60" wide* ..... Riser 18.00
- *Newel posts and rail extra*

WOOD CASES & CABINETS:
- *D.F. Wall Hung* ..... LF 15.00 - 20.00
- *D.F. Counters* ..... LF 18.00 - 25.00

DAMPPROOFING & WATERPROOFING

MEMBRANE:
- *1 layer 50 lb. felt* ..... SQ. 9.00
- *4 layers Dampcourse* ..... SQ. 14.00
- *Hot coat walls* ..... SQ. 8.00
- *Tricoal added to concrete* ..... CY 1.00
- *Anti-Hydro added to concrete* ..... CY 1.50

ELECTRIC WIRING

Per Outlet:
- *Knob & Tube* ..... EA 9.00
- *Armor* ..... EA 16.00
- *Conduit* ..... EA 20.00
- *110 V Circuit* ..... EA 25.00
- *220 V Circuit* ..... EA 95.00

ELEVATORS & ESCALATORS

Prices vary according to capacity, speed and type. Consult Elevator Companies.

Slow speed apartment house elevator including doors and trim, about $5,500.00 per floor.

EXCAVATION

MACHINE WORK in common ground:
- *Large Basements* ..... CY .75 - 1.00
- *Small Pits* ..... CY 1.25 - 1.75
- *Trenches* ..... CY 1.50 - 2.25

HAND WORK in common ground:
- *Large pits and trenches* ..... CY 5.00 - 6.00
- *Small pits and trimming* ..... CY 6.00 - 8.00

Hard Clay & Shale 2 times above rates.
Rock and large boulders 4-6 times above rates.
Shoring, bracing and disposal of water not included.

FLOORS

- *⅛" Asp. tile, dark colors* ..... SF .25 - .30
- *⅛" Asp. tile, light colors* ..... SF .30 - .35
- *⅛" Rubber tile* ..... SF .60 - .70
- *.080 Vinyl Asbestos Tile* ..... SF .40 - .45
- *.080 Vinyl Tile* ..... SF .85 - .95
- *Lino, Standard Gauge* ..... SY 3.75 - 4.25
- *Lino, Battleship* ..... SY 5.25 - 5.75
- *4" Rubber Base, Black* ..... LF .35 - .40
- *Rubber Stair Treads* ..... LF 2.25 - 2.75

Above rates based on quantities of 1000 - 5000 SF per job.

HARDWOOD FLOORS

Select Oak, filled, sanded, stained and varnished:
- *5/16" x 2¼" strip* ..... SF .47 - .52
- *5/16" Random Plank* ..... SF .52 - .57
- *25/32" x 2¼" T&G* ..... SF .80 - .90

Maple, 2nd Grade and Better, filled, sanded, stained and varnished:
- *25/32" x 2¼" T&G* ..... SF .85 - .95
- *Wax Finish, add* ..... SF .10

HARDWOOD FLOORING

Oak 5/16" x 2" Strip—
- Clear ..... M 240.00
- Select ..... M 228.00
- #1 Common ..... M 218.00

Oak 5/16" Random Plank—
- Select & Btr. ..... M 286.00
- #1 Common ..... M 244.00

Oak 25/32" x 2¼" T&G—
- Select ..... M 260.00
- #1 Common ..... M 225.00

Maple 25/32" x 2¼" T&G—
- #1 Grade ..... M 350.00
- #2 Grade ..... M 225.00
- #3 Grade ..... M 240.00

Nails—1" Floor Brads ..... KEG 17.20

GLASS & GLAZING

- *S.S.B. Clear* ..... SF .52
- *D.S.B. Clear* ..... SF .75
- *Crystal* ..... SF 1.05
- *¼" Plate* ..... SF 2.25
- *⅛" Obscure* ..... SF .75
- *⅛" Heat Absorbing* ..... SF 1.25
- *¼" Tempered Plate* ..... SF 4.50
- *½" Tempered Plate* ..... SF 8.00
- *¼" Wire Plate, Clear* ..... SF 4.35
- *¼" Wire Plate, Rough* ..... SF 1.40

GLASS—CUT TO SIZE

F.O.B. Warehouse
- S.S.B. Clear, Av. 4 SF ..... SF .34
- D.S.B. Clear, Av. 7 SF ..... SF .48
- Crystal, Av. 16 SF ..... SF .56
- ¼" Polished Plate, Av. 50 SF ..... SF 1.45
- ⅛" Obscure, Av. 7 SF ..... SF .54
- ⅛" Ribbed, Av. 7 SF ..... SF .54
- ⅛" Rough, Av. 7 SF ..... SF .54
- ¼" Wire Plate, Clear, Av. 40 SF ..... SF 2.85
- ¼" Wire Plate, Rough, Av. 40 SF ..... SF .86
- ⅛" Heat Absorbing, Av. 7 SF ..... SF .88
- ¼" Tempered Plate, Av. 40 SF ..... SF 3.60
- ½" Tempered Plate, Av. 40 SF ..... SF 6.50
- Glazing—Apptox. 40-50% of Glass

Glass Blocks—
- 6" ..... .57
- 8" ..... .92
- 12" 2.39

HEATING

FURNACES—Gas Fired—Av. Job:
- FLOOR FURNACE:
- *25,000 BTU* ..... 100.00 - 125.00
- *35,000 BTU* ..... 107.00 - 135.00
- *45,000 BTU* ..... 115.00 - 150.00
- AUTOMATIC CONTROL:
- *Add* ..... 25.00 - 35.00

HEATING—Cont'd

DUAL WALL FURNACE:
- *25,000 BTU* ..... 110.00 - 125.00
- *35,000 BTU* ..... 125.00 - 145.00
- *50,000 BTU* ..... 150.00 - 180.00

AUTOMATIC CONTROL:
- *Add* ..... 25.00 - 35.00

GRAVITY FURNACE:
- *75,000 BTU* ..... 375.00 - 450.00
- *85,000 BTU* ..... 425.00 - 525.00
- *95,000 BTU* ..... 475.00 - 600.00

FORCED AIR FURNACE:
- *Add* ..... 75.00 - 125.00

AUTOMATIC CONTROL:
- *Add* ..... 15.00 - 25.00

HEAT REGISTERS:
- *Outlet* ..... 7.50 - 15.00

INSULATION & WALLBOARD

F.O.B. Warehouse

ROCKWOOL Insulation—		
2" Semi-thick	Per M SF	62.00
3⅝" Full Thick	Per M SF	80.00
COTTON Insulation		
1" Full Thick	Per M SF	45.00
SOFTBOARDS—Wood Fiber—		
½" thick	Per M SF	84.00
1½" thick	Per M SF	275.00
2" thick	Per M SF	385.00
ALUMINUM Insulation—		
35# Kraft paper with alum. foil		
1 side only	Per M SF	19.00
2 sides	Per M SF	34.00
GYPSUM Wallboard—		
⅜" thick	Per M SF	49.50
½" thick	Per M SF	54.50
⅝" thick	Per M SF	83.00
⅝" Gyplap	Per M SF	85.00
HARDBOARDS—Wood Fiber—		
⅛" thick, Sheathing	Per M SF	84.00
5/32" thick, Sheathing	Per M SF	90.48
¼" thick, Sheathing	Per M SF	109.20
⅛" thick, Tempered	Per M SF	108.00
5/32" thick, Tempered	Per M SF	186.00
¼" thick, Tempered	Per M SF	194.48
CEMENT Asbestos Board—		
⅛" C.A.B. Flat Sheets	Per M SF	160.00
5/32" C.A.B. Flat Sheets	Per M SF	208.80
¼" C.A.B. Flat Sheets	Per M SF	270.01

LATH & PLASTER

Diamond 3.40 copper bearing	SY	.51
Ribbed 3.40 copper bearing	SY	.56
⅜" rock lath	SY	.36
1½" Standard Channel	LF	.060
¾" Standard Channel	LF	.043
3¼" steel studs	LF	.093
4" steel studs	LF	.103
Stud shoes	EA	.025
Hardwall, Browning	Sack	1.50
Hardwall, Finish	Sack	1.75
Stucco	Sack	2.50

LATH & PLASTERWORK

CHANNEL FURRING:
- *Suspended Ceilings* ..... SY 2.50 - 2.80
- *Walls* ..... SY 2.60 - 2.90

METAL STUD PARTITIONS:
- 3¼" *Studs* ..... SY 2.50 - 2.20
- 4" *Studs* ..... SY 2.70 - 3.10
- *Over 10'0 high, add* ..... SY .20 - .30

3.40 METAL LATH AND PLASTER:
- *Ceilings* ..... SY 3.90 - 4.40
- *Walls* ..... SY 4.00 - 4.50

KEENE'S CEMENT FINISH:
- *Add* ..... SY .40 - .60

ROCK LATH & PLASTER:
- *Ceilings* ..... SY 2.90 - 3.40
- *Walls* ..... SY 3.00 - 3.50

WIRE MESH AND ⅞" STUCCO
- *Walls* ..... SY 3.90 - 4.40

STUCCO ON CONCRETE:
- *Walls* ..... SY 2.80 - 3.20

METAL ACCESSORIES ..... LF .20 - .50

LINOLEUM

Lino. Standard Gauge	SY	2.65 - 2.85
Lino. Battleship	SY	2.95 - 3.11
⅛" Asp. tile, Dark	SF	.10 - .11
⅛" Asp. tile, Light	SF	.14 - .16
⅛" Rubber Tile	SF	.40 - .44
.080 Vinyl tile	SF	.20 - .21
.080 Vinyl Asb. tile	SF	.18 - .19
⅛" Vinyl tile	SF	.78 - .82
4" Base, Black	LF	.15 - .16
4" Base, Colored	LF	.26 - .20
Rubber Treads	LF	1.60 - 2.30
Lino Paste	GAL	.75 - .90

Above rates based on quantities of 1000-5000 SF per job.

LUMBER

DOUGLAS FIR:	M.B.M.
#1 2x4—2x10	102.00 - 106.00
#2 2x4—2x10	96.00 - 100.00
#3 2x4—2x10	75.00 - 80.00
#4 2x4—2x10	55.00 - 65.00
Clear, Air Dried	180.00 - 210.00
Clear, Kiln Dried	210.00 - 240.00
REDWOOD:	
Foundation Grade	120.00 - 130.00
Construction Heart	115.00 - 125.00
A Grade	180.00 - 210.00
Clear Heart	195.00 - 215.00
D.F. PLYWOOD	M.S.F.
¼" AB	118.00
¼" AD	105.00
¼" Ext. Waterproof	115.00
⅜" AB	140.00
⅜" AD	130.00
⅜" CD	90.00
½" AB	185.00
½" AD	175.00
½" CD	120.00
⅝" AB	215.00
⅝" AD	195.00
⅝" CD	135.00
¾" AB	240.00
¾" AD	220.00
¾" CD	165.00
⅝" Plyform	225.00
SHINGLES:	Square
Cedar #1	16.00 - 18.00
Cedar #2	14.00 - 16.00
SHAKES:	
CEDAR	
½ to ¾" Butt	18.00 - 20.00
¾ to 1¼" Butt	20.00 - 22.00
REDWOOD	
¾ to 1¼" Butt	21.00 - 24.00

MILLWORK

All Prices F.O.B. Mill

D.F. CLEAR, AIR DRIED:		
S4S	MBM	220.00 - 250.00
D.F. CLEAR, KILN DRIED:		
S4S	MBM	225.00 - 275.00
DOOR FRAMES & TRIM:		
Residential Entrance		17.00 & up
Interior Room Entrance		7.50 & up
DOORS:		
1⅜" D.F. Slab, Hollow Core		8.00 & up
1¾" D.F. Slab, Solid Core		19.00 & up
1⅜" Birch Slab, Hollow Core		10.00 & up
1¾" Birch Slab, Solid Core		22.00 & up
WINDOW FRAMES:		
D/H Singles	SF	.90
Casement Singles	SF	.90
WOOD SASH:		
D/H in pairs (1 lite)	SF	.55
Casement (1 lite)	SF	.65
WOOD CABINETS:		
¾" D.F. Ply with ¼" ply backs		
Wall Hung	LF	10.00 - 15.00
Counter	LF	12.00 - 17.00

BIRCH OR MAPLE—Add 25%

PAINT

All Prices F.O.B. Warehouse

Thinners—5-100 gals.	GAL.	.57
Turpentine—5-100 gals.	GAL.	1.58
Linseed Oil, Raw	GAL.	2.51
Linseed Oil, Boiled	GAL.	2.57
Primer-Sealer	GAL.	3.10
Enamel	GAL.	5.56
Enamel Undercoaters	GAL.	5.56
White Lead in Oil	LB.	.35
Red Lead in Oil	LB.	.35
Litharge	LB.	.30

PAINTING

EXTERIOR:
- *Stucco Wash 1 ct.* ..... SY .30
- *Stucco Wash 2 cts.* ..... SY .55
- *Lead and Oil 2 cts* ..... SY .90
- *Lead and Oil 3 cts* ..... SY 1.30

INTERIOR:
- *Primer Sealer* ..... SY .40
- *Wall Paint, 1 ct.* ..... SY .50
- *Wall Paint, 2 cts.* ..... SY .95
- *Enamel, 1 ct.* ..... SY .60
- *Enamel, 2 cts.* ..... SY 1.10
- *Doors and Trim* ..... EA 10.00
- *Sash and Trim* ..... EA 12.00
- *Base and Molds* ..... LF .12

Old Work—Add 15-30%

PLUMBING

Lavatories	EA	150.00 - 200.00
Toilets	EA	200.00 - 300.00
Bath Tubs	EA	250.00 - 350.00
Stall Shower	EA	125.00 - 175.00
Sinks	EA	150.00 - 200.00
Laundry Trays	EA	100.00 - 150.00
Water Heaters	EA	100.00 - 300.00

Prices based on average residential and commercial work. Special fixtures and excessive piping not included.

ROOFING

STANDARD TAR & GRAVEL	Per Square
4 ply	14.00 - 18.00
5 ply	17.00 - 20.00
White Gravel Finish—Add	2.00 - 4.00
Asph. Compo. Shingles	16.00 - 20.00
Cedar Shingles	22.00 - 26.00
Cedar Shakes	28.00 - 32.00
Redwood Shakes	28.00 - 34.00
Clay Tiles	40.00 - 50.00

SEWER PIPE

VITRIFIED:

Standard 4 in.	LF	.31
Standard 6 in.	LF	.56
Standard 8 in.	LF	.81
Standard 12 in.	LF	1.76
Standard 24 in.	LF	6.95
CLAY DRAIN PIPE:		
Standard 6 in.	LF	.34
Standard 8 in.	LF	.59

Rate for 100 Lin. Ft. F.O.B. Warehouse

STEEL

REINFORCING BARS:

¼" rounds	LB	.124
⅜" rounds	LB	.113
½" rounds	LB	.109
⅝" rounds	LB	.106
¾" rounds	LB	.104
⅞" rounds	LB	.104
1" rounds	LB	.104
REINFORCING MESH (1050 SF Rolls)		
6x6 x 10x10	SF	.035
6x6 x 6x6	SF	.067
16 GA. TYING WIRE	LB	.162

Rates 100-1000 Lbs. F.O.B. Warehouse

STRUCTURAL STEEL

$325.00 and up per ton erected when out of mill.
$350.00 and up per ton erected when out of stock.

SHEET METAL

ROOF FLASHINGS:

18 ga. Galv. Steel	SF	.60 - 1.00
22 ga. Galv. Steel	SF	.50 - .90
26 ga. Galv. Steel	SF	.40 - .80
18 ga. Aluminum	SF	1.00 - 1.50
22 ga. Aluminum	SF	.80 - 1.30
26 ga. Aluminum	SF	.60 - 1.10
24 oz. Copper	SF	1.90 - 2.40
20 oz. Copper	SF	1.70 - 2.20
16 oz. Copper	SF	1.50 - 2.00
26 ga. Galv. Steel		
4" *o.g. gutter*	LF	.90 - 1.30
Mitres and Drops	EA	2.00 - 4.00
22 ga. Galv. Louvres	SF	2.50 - 3.50
20 oz. Copper Louvres	SF	3.00 - 4.50

TILE WORK

CERAMIC TILE, Stock colors:

Floors	SF	1.95 - 2.45
Walls	SF	2.05 - 2.55
Coved Base	LF	1.05 - 1.45
QUARRY TILE:		
6" x 6" x ¼" *Floors*	SF	1.60 - 2.00
9" x 9" x ¾" *Floors*	SF	1.75 - 2.15
Treads and risers	LF	3.00 - 4.50
Coved Base	LF	.90 - 1.30

Mosaic Tile — Rates vary with design and colors. Each job should be priced from Manufacturer.

TERRAZZO & MARBLE

Terrazzo Floors	SF	2.00 - 2.30
Cond. Terr. Floors	SF	2.20 - 2.75
Precast treads and risers	LF	3.50 - 4.50
Precast landing slabs	SF	3.00 - 4.00

TILE

CERAMIC:

F.O.B. Warehouse

4¼" x 4¼" glazed	SF	.69
4¼" x 4¼" hard glazed	SF	.72
Random unglazed	SF	.73
6" x 2" cap	EA	.17
6" coved base	EA	.29
¼" round bead	LF	.18
QUARRY:		
6 x 6 x ½" Red	SF	.49
6 x 6 x ¾" Red	SF	.52
9 x 9 x ¾" Red	SF	.60
6 x 6" coved base	EA	.21
White Cement Grout	Per 100 Lbs.	6.25

VENETIAN BLINDS

Residential	SF	.45 & Up
Commercial	SF	.55 & Up

WINDOWS

STEEL SASH:

Under 10 SF	SF	2.50 & Up
Under 15 SF	SF	2.00 & Up
Under 20 SF	SF	1.50 & Up
Under 30 SF	SF	1.00 & Up
ALUMINUM SASH:		
Under 10 SF	SF	2.75 & Up
Under 15 SF	SF	2.25 & Up
Under 20 SF	SF	1.75 & Up
Under 30 SF	SF	1.25 & Up

Above rates are for standard sections and stock sizes F.O.B. Warehouse

CONSTRUCTION INDUSTRY WAGE RATES

Table 1. The rates are the union hourly wage rates established by collective bargaining as of January 2, 1959, as reported by reliable sources.

TABLE 1—UNION HOURLY WAGE RATES, CONSTRUCTION INDUSTRY, CALIFORNIA

Following are the hourly rates of compensation established by collective bargaining, reported as of January 2, 1959 or later

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKER	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85
BOILERMAKER	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675
BRICKLAYER	3.95	3.75	3.75	3.75	3.80	3.75	3.875	3.95	3.80	3.90	3.75	3.80	3.85
BRICKLAYER HODCARRIER	3.15	3.15	3.15	2.90	3.10	2.90	3.00	3.10	2.75	2.75	2.75	2.75	2.75
CARPENTER	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
CEMENT MASON	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.40	3.475	3.475	3.40	3.40
ELECTRICIAN	4.061	4.061	4.061	3.75	4.06	3.75	4.16	3.666[A]	3.90	3.90	4.10	3 90	3.70
GLAZIER	3.215	3.215	3.215	3.215	3.215	3.215	3.24	3.215	3.135	3.135	3.135	3.135	3.135
IRON WORKER													
ORNAMENTAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
REINFORCING	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
STRUCTURAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
LABORER, GENERAL OR CONSTRUCTION	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.68	2.66	2.68	2.68
LATHER	3.4375	3.84	3.84	3.45	3.60[B]	3.40[C]	3.60[D]	3.50[E]	3.9375		3.725	3.625[F]	
OPERATING ENGINEER													
Concrete mixer (up to 1 yard)	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Concrete mixer operator—Skip Type	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.17	3.17	3.17	3.17	3.17
Elevator Hoist Operator									3.19	3.19	3.19	3.19	3.19
Material Hoist (1 drum)	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19					
Tractor Operator	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.71	3.71	3.71	3.71	3.71
PAINTER													
Brush	3.20	3.25	3.35	3.33	3.50	3.325	3.35	3.20	3.36	3.25	3.39	3.25	3.10
Spray	3.20	3.60	3.60	3.58	3.75	3.475	3.60	3.20	3.61	3.50	3.94	3.80	3.35
PILEDRIVERMAN	3.505	3.455	3.505	3.505	3.85	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505
PLASTERER	3.69	3.545	3.545	3.35	3.60[B]	3.55[C]	3.58	3.50	4 00	4.00	3.725	3 9375	
PLASTERER HODCARRIER	3.25	3.42	3.42	3.10	3.10	3.00[C]	3 20	3.15	3.6875	3.5475	3.475	3 50	3.6875
PLUMBER	3.67		3.935[I]	4.05	3.925	3 80[J]	3.85	3.80	3 90	3.80	3 80	3 80	3.80
ROOFER	3.35	3.35	3.35	3.20	3.25	3.35	3.60	3.10[K]	3.35	3 75	3.10	3.30	3.775
SHEET METAL WORKER	3.675	3.675	3.675	3.675	3.675	3.685	3 675	3.685	3.70	3.70	3.65	3 45	3.10
STEAMFITTER	3.67	3.96	3.96	3.80[J]	3.70	3.80[J]	3.60	3.675	3.80	3.80	3.80	3.80	3.775
TRUCK DRIVER—													
Dump Trucks under 4 yards	2.89	2.75	2.75	2.75	2 75	2.75	2.75	2.75	2.93	2.93	2.93	2.93	2.93
TILE SETTER	3.30	3.30	3.30	3.30	3.30	3.30	3.50	3.30	3.70	3.60	3.60	3.60	

A Includes 4% vacation allowance.

B Includes 5c hour for industry promotion and 5c hour for vacation fund.

C ½% withheld for industry promotion.

D 1½c withheld for industry promotion.

E Includes 5c hour for industry promotion and 5c hour for vacation fund. Hourly rate for part of county adjacent to Sacramento County is $3.60.

F Northern part of county: $3.75.

I Includes 30c hour for vacation pay.

J Includes 15c hour which local union may elect to use for vacation purposes.

K Includes 10c hour for vacation fund.

L Includes 10c hour savings fund wage.

CONSTRUCTION INDUSTRY WAGE RATES — TABLE 2

Employer Contributions to Health and Welfare, Pension, Vacation and Other Funds
California Union Contracts, Construction Industry

(Revised March, 1957)

CRAFT	San Francisco	Fresno	Sacramento	San Joaquin	Santa Clara	Los Angeles	San Bernardino	San Diego
ASBESTOS WORKER	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W	.10 W	.10 W
BRICKLAYER	.15 W .14 P .05 hr. V		.15 W .10 P		.15 W			
BRICKLAYER HODCARRIER	.10 W .10 P .10 V	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
CARPENTER	.10 W .10 hr. V	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
CEMENT MASON	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
ELECTRICAL WORKER	.10 W 1% P 4% V	.10 W 1% P 4% V	.075 W 1% P	.075 W 1% P 4% V	1% P	1% P	1% P	.10 W 1% P
GLAZIER	.075 W .085 V	.075 W 40 hr. V	.075 W .05 V	.075 W .05 V	.075 W .085 V	.075 W 40 hr. V	.075 W 40 hr. V	.075 W 10 hr. V
IRONWORKER: REINFORCING STRUCTURAL	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W
LABORER, GENERAL	.10 W	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
LATHER	.60 day W .70 day V		.10 W	.10 W	.075 W .05 V	.90 day W	.70 day W	.10 W
OPERATING ENGINEER TRACTOR OPERATOR (MIN.) POWER SHOVEL OP. (MIN.)	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W	.10 W .10 W
PAINTER, BRUSH	.095 W	.08 W	.075 W	.10 W	.095 W .07 V	.085 W	.08 W	.09 W
PLASTERER	.10 W .10 V	.10 W	.10 W	.10 W	.10 W .15 V	.10 W	.90 day W	.10 W
PLUMBER	.10 W .10 V	.15 W .10 P	.10 W .10 P .125 V	.10 W	.10 W .10 P .125 V	.10 W	.90 day W	.10 W
ROOFER	.10 W .10 V	.10 W	.10 W .10 V	.10 W	.075 W .10 V	.085 W	.10 W	.075 W
SHEET METAL WORKER	.075 W 4% V	.075 W 7 day V	.075 W .10 V	.075 W .12 V	.075 W 4% V	.085 W .10 V	.085 W .10 V	.085 W 5 day V
TILE SETTER	.075 W .09 V				.075 W .09 V	.025 W .06 V		

ATTENTION: **The above tabulation has been prepared and compiled from the available data reported by building trades councils, union locals, contractor organizations and other reliable sources. The table was prepared from incomplete data; where no employer contributions are specified, it does not necessarily mean that none are required by the union contract.**

The type of supplement is indicated by the following symbols: W—Health and Welfare; P—Pensions; V—Vacations; A—Apprentice training fund; Adm—Administration fund; JIB—Joint Industry Board; Prom—Promotion fund.

CLASSIFIED ADVERTISING

RATE: 20c PER WORD . . . CASH WITH ORDER — MINIMUM $5.00

BUILDERS! You can make more money; get information you need before it is published elsewhere: Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

STRUCTURAL DESIGNER, MSCE, available. Experience: planning, administration, economical investigations, design, supervision, inspection, wide variety projects. Specialties: prestressed, shell, and complex structures. For resume: Box 532, Architect & Engineer.

WOOD CARVING, Furniture finishing and Design: Theodore H. Peterson, 10 California Ave., San Rafael. Phone GL 3-7335.

ARCHITECT AND PLANNER with twenty-five years' experience in U.S.A., Europe and Canada in all classes of work seeks connection in California. Own practice for nine years. Write Box 533, The Architect and Engineer Inc., 68 Post St., San Francisco.

ARCHITECTURAL AND STRUCTURAL DESIGNERS AND DRAFTSMEN NEEDED: Permanent employment, modern air conditioned office. Apply Kenny & Cullimore, 2 Niles Street, Bakersfield, California, phone FAirview 7-0256.

WRITING SERVICE — Letters, Applications, Resumes, Manuals. Editing. Ghost Writing. FILECO, 1456 Jones St., San Francisco. Tel. OR 3-6872.

INTERIOR DECORATION HOME STUDY— Announcing new home study course in Interior Decoration. For professional or personal use. Fine field for men and women. Practical basic training. Approved supervised method. Low tuition. Easy payments. Free Booklet. Chicago School of Interior Decoration, 835 Diversey Parkway, Dept. 9293, Chicago 14.

PERMANENT POSITION REQUIRED: Supervisor or foreman — Architectural Aluminum (Store Fronts) — Porcelain Enamel — Experienced ten years, Three years, Mechanical Engineering, three years Civil Engineering—Field Work. Write Box No. 534 THE ARCHITECT AND ENGINEER, INC., 68 Post St., San Francisco, Calif.

QUICK REFERENCE
ESTIMATOR'S DIRECTORY
Building and Construction Materials

ACOUSTICAL ENGINEERS
L. D. REEDER CO.
San Francisco: 1255 Sansome St., DO 2-5050
Sacramento: 3026 V St., GL 7-3505

AIR CONDITIONING
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
GILMORE AIR CONDITIONING SERVICE
San Francisco: 1617 Harrison St., UN 1-2000
KAEMPER & BARRETT
San Francisco: 233 Industrial St., JU 6-6200
LINFORD AIR & REFRIGERATION CO.
Oakland: 174-12th St., TW 3-6521
JAMES A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

ALUMINUM BLDG. PRODUCTS
MICHEL & PFEFFER IRON WORKS (Wrought Iron)
So. San Francisco: 212 Shaw Road, PLaza 5-8983
REYNOLDS METALS CO.
San Francisco: 3201 Third St., MI 7-2990
UNIVERSAL WINDOW CO.
Berkeley: 950 Parker St., TH 1-1600

ARCHITECTURAL PORCELAIN ENAMEL
CALIFORNIA METAL ENAMELING CO.
Los Angeles: 6904 E. Slauson, RA 3-6351
San Francisco: Continental Bldg. Products Co., 178 Fremont St.
Portland: Portland Wire & Iron Works, 4644 S.E. Seventeenth Ave.
Seattle: Foster-Bray Co., 2412 1st Ave. So.
Spokane: Bernhard Schafer, Inc., West 34, 2nd Ave.
Salt Lake City: S. A. Roberts & Co., 109 W. 2nd So.
Dallas: Offenhauser Co., 2201 Telephone Rd.
El Paso: Architectural Products Co., 506 E. Yandell Blvd.
Phoenix: Haskell-Thomas Co., 3808 No. Central
San Diego: Maloney Specialties, Inc., 823 W. Laurel St.
Boise: Intermountain Glass Co., 1417 Main St.

ARCHITECTURAL & AERIAL PHOTOGRAPHS
FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

ARCHITECTURAL VENEER
Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle 99: 945 Elliott Ave., West, GA 0330
Spokane: 1102 N. Monroe St., BR 3259
KRAFTILE COMPANY
Niles, Calif., Niles 3611

Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601, Franklin Building
Pasadena 8: P. O. Box 186, East Pasadena Station

Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

BANKS - FINANCING
CROCKER-ANGLO NATIONAL BANK
San Francisco: 13 Offices

BLINDS
PARAMOUNT VENETIAN BLIND CO.
San Francisco: 5929 Mission St., JU 5-2436

BRASS PRODUCTS
GREENBERG'S, M. SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK
Face Brick
GLADDING McBEAN & CO.
San Francisco: Harrison at 9th, UN 1-7400
KRAFTILE CO.
Niles, Calif., Niles 3611
UNITED MATERIALS & RICHMOND BRICK CO.
Point Richmond, BE 4-5032

BRONZE PRODUCTS
GREENBERG'S M. SONS
San Francisco: 765 Folsom St., EX 2-3143
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Road, PLaza 5-8983
C. E. TOLAND & SON
Oakland: 2635 Peralta St., GL 1-2580

BUILDING HARDWARE
E. M. HUNDLEY HARDWARE CO.
San Francisco: 662 Mission St., YU 2-3322

BUILDING PAPERS & FELTS
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CABINETS & FIXTURES
CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316
THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513
MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815
PARAMOUNT BUILT IN FIXTURE CO.
Oakland: 962 Stanford Ave., OL 3-9911
ROYAL SHOWCASE CO.
San Francisco: 770 McAllister St., JO 7-0311

CEMENT
CALAVERAS CEMENT CO.
San Francisco: 315 Montgomery St.
DO 2-4224, Enterprise 1-2315
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CONCRETE AGGREGATES
Ready Mixed Concrete
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
RHODES-JAMIESON LTD.
Oakland: 333-23rd Ave., KE 3-5225

CONCRETE ACCESSORIES
Screed Materials
C. & H. SPECIALTIES CO.
Berkeley: 909 Camelia St., LA 4-5358

CONCRETE BLOCKS
BASALT ROCK CO.
Napa, Calif.

CONCRETE COLORS—HARDENERS
CONRAD SOVIG CO.
875 Bryant St., HE 1-1345

CONSTRUCTION SERVICES
LE ROY CONSTRUCTION SERVICES
San Francisco, 143 Third St., SU 1-8914

DECKS—ROOF
UNITED STATES GYPSUM CO.
2322 W. 3rd St., Los Angeles 54, Calif.
300 W. Adams St., Chicago 6, Ill.

DOORS
THE BILCO COMPANY
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Popovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

Electric Doors
ROLY-DOOR SALES CO.
San Francisco, 5976 Mission St., PL 5-5089

Folding Doors
WALTER D. BATES & ASSOCIATES
San Francisco, 693 Mission St., GA 1-6971

Hardwood Doors
BELLWOOD CO. OF CALIF.
Orange, Calif., 533 W. Collins Ave.

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
T. M. COBB CO.
Los Angeles & San Diego
HOGAN LUMBER CO.
Oakland: 700 - 6th Ave.
HOUSTON SASH & DOOR
Houston, Texas
SOUTHWESTERN SASH & DOOR
Phoenix, Tucson, Arizona
El Paso, Texas
WESTERN PINE SUPPLY CO.
Emeryville: 5760 Shellmound St.
GEO. C. VAUGHAN & SONS
San Antonio & Houston, Texas

DRAFTING ROOM EQUIPMENT
GENERAL FIREPROOFING CO.
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070

DRINKING FOUNTAINS
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341

ELECTRICAL CONTRACTORS
COOPMAN ELECTRIC CO.
San Francisco: 85 - 14th St., MA 1-4438

ELECTRICAL CONTRACTORS (cont'd)

LEMOGE ELECTRIC CO.
San Francisco: 212 Clara St., DO 2-6010

LYNCH ELECTRIC CO.
San Francisco: 937 McAllister St., WI 5158

PACIFIC ELECTRIC & MECHANICAL CO.
San Francisco: Gough & Fell Sts., HE 1-5904

ELECTRIC HEATERS

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211

FIRE ESCAPES

MICHEL & PFEFFER IRON WORKS
South San Francisco: 212 Shaw Road, PLaza 5-8983

FIRE PROTECTION EQUIPMENT

FIRE PROTECTION PRODUCTS CO.
San Francisco: 1101-16th St., UN 1-2420

BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

FLOORS

Floor Tile

GLADDING McBEAN & CO.
San Francisco: Harrison at 9th St.. UN 1-744
Los Angeles: 2901 Las Feliz Bldg., OL 2121

KRAFTILE CO.
Niles, Calif., Niles 3611

Resilient Floors

PETERSON-COBBY CO.
San Francisco: 218 Clara St., EX 2-8714

TURNER RESILIENT FLOORS CO.
San Francisco: 2280 Shafter Ave., AT 2-7720

FLOOR DRAINS

JOSAM PACIFIC COMPANY
San Francisco: 765 Folsom St., EX 2-3142

GAS VENTS

WM. WALLACE CO.
Belmont, Calif.

GENERAL CONTRACTORS

BARRETT CONSTRUCTION CO.
San Francisco: 1800 Evans Ave., MI 7-9700

JOSEPH BETTANCOURT
South San Francisco: 125 So. Linden St., PL 5-9185

DINWIDDIE CONSTRUCTION CO.
San Francisco: Crocker Bldg., YU 6-2718

O. L. FAULL CONSTRUCTION CO.
Santa Rosa: 1236 Cleveland Ave.

HAAS & HAYNIE
San Francisco: 275 Pine St., DO 2-0678

HENDERSON CONSTRUCTION CO.
San Francisco: 33 Ritch St., GA 1-0856

JACKS & IRVINE
San Francisco: 620 Market St., YU 6-0511

RALPH LARSEN & SON
San Francisco: 64 So. Park, YU 2-5682

LINDGREN & SWINERTON
San Francisco: 200 Bush St., GA 1-2980

MacDONALD, YOUNG & NELSON
Oakland: 8907 Railroad Ave.

MATTOCK CONSTRUCTION CO.
San Francisco: 220 Clara St., GA 1-5516

RAPP, CHRISTENSEN & FOSTER
Santa Rosa: 705 Bennett Ave.

STOLTE, INC.
Oakland: 8451 San Leandro Ave., LO 2-4611

SWINERTON & WALBERG
San Francisco: 200 Bush St., GA 1-2980

FURNITURE—INSTITUTIONAL

GENERAL FIREPROOFING CO.
San Francisco: 1025 Howard St., HE 1-7078
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501

HEATING & VENTILATING

ATLAS HEATING & VENT. CO.
San Francisco: 557-4th St., DO 2-0377

E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., OL 2-6000

LOUIS V. KELLER
San Francisco: 289 Tehama St., JU 6-6252

L. J. KRUSE CO.
Oakland: 6247 College Ave., OL 2-8332

JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

SCOTT COMPANY
Oakland: 1919 Market St., GL 1-1937

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211
Los Angeles: 530 W. 7th St., MI 8096

INSULATION WALL BOARD

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

INTERCEPTING DEVICES

JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3142

IRON—ORNAMENTAL

MICHEL & PFEFFER IRON WKS.
So. San Francisco. 212 Shaw Rd., PL 5-8983

LATHING & PLASTERING

ANGELO J. DANERI
San Francisco: 1433 Fairfax Ave., AT 8-1582

K-LATH CORP.
Alhambra: 909 So. Fremont St., Alhambra

A. E. KNOWLES CORP.
San Francisco: 3330 San Bruno Ave., JU 7-2091

G. H. & C. MARTINELLI
San Francisco: 174 Shotwell St., UN 3-6112

PATRICK J. RUANE
San Francisco: 44 San Jose Ave., MI 7-6414

LIGHTING FIXTURES

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LIGHTING & CEILING SYSTEMS

UNITED LIGHTING AND FIXTURE CO.
Oakland: 3120 Chapman St., KE 3-8711

LUMBER

CHRISTENSEN LUMBER CO.
San Francisco: Quint & Evans Ave., VA 4-5832

ART HOGAN LUMBER CO.
San Francisco: 1701 Galvez Ave., ATwater 2-1157

ROLANDO LUMBER CO.
San Francisco: 5th & Berry Sts.. SU 1-6901

WEST COAST LUMBERMEN'S ASS'N
Portland 5, Oregon

MARBLE

JOS. MUSTO SONS-KEENAN CO.
San Francisco: 555 No. Point St., GR 4-6365

VERMONT MARBLE CO.
San Francisco: 6000-3rd St., VA 6-5024

MASONRY

BASALT ROCK CO.
Napa, Calif.
San Francisco: 260 Kearney St., GA 1-3758

WM. A. RAINEY & SON
San Francisco: 323 Clementina St., SU 1-0072

GEO. W. REED CO.
San Francisco: 1390 So. Van Ness Ave., AT 2-1226

METAL EXTERIOR WALLS

THE KAWNEER CO.
Berkeley: 930 Dwight Way, TH 5-8710

METAL FRAMING

UNISTRUT OF NORTHERN CALIFORNIA
Berkeley: 2547-9th St., TH 1-3031
Enterprise 1-2204

METAL GRATING

KLEMP METAL GRATING CORP.
Chicago, Ill.: 6601 So. Melvina St.

METAL LATH—EXPANDED

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

METAL PARTITIONS

THE E. F. HAUSERMAN CO.
San Francisco: 485 Brannan St., YU 2-5477

METAL PRODUCTS

FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100

MILLWORK

CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316

THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513

MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815

PACIFIC MFG. CO.
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, S. C. 607
Los Angeles: 6820 McKinley Ave., TH 4156

SOUTH CITY LUMBER & SUPPLY CO.
So. San Francisco: Railroad & Spruce. PL 5-7095

OFFICE EQUIPMENT

GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

OIL BURNERS

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., GL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia, Pa.: 401 North Broad St.

ORNAMENTAL IRON

MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

PAINTING

R. P. PAOLI & CO.
San Francisco: 2530 Lombard St., WE 1-1632

SINCLAIR PAINT CO.
San Francisco: 2112-15th St., HE 1-2196

O. ZELINSKY & SONS
San Francisco: 165 Groove St., MA 1-7400

PHOTOGRAPHS

Construction Progress

FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

PLASTER

PACIFIC CEMENT & AGGREGATE INC.
San Francisco: 400 Alabama St., KL 2-1616

PLASTIC PRODUCTS

PLASTIC SALES & SERVICE
San Francisco: 409 Bryant St., DO 2-6433

WEST COAST INDUSTRIES
San Francisco: 3150-18th St., MA 1-5657

UMBING
BRIGGS MFG. CO.
Warren, Michigan
BROADWAY PLUMBING CO.
San Francisco: 1790 Yosemite Ave., MI 8-4250
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143
LOUIS Y. KELLER
San Francisco: 289 Tehama St., YU 6-6252
JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140
RODONI-BECKER CO., INC.
San Francisco: 455-10th St., MA 1-3662
SCOTT CO.
Oakland: 1919 Market St., GL 1-1937

ST PULLER
HOLLAND MFG. CO.
No. Sacramento: 1202 Dixieanne

IMPING MACHINERY
SIMONDS MACHINERY CO.
San Francisco: 816 Folsom St., DO 2-6794

IOFING
ANCHOR ROOFING CO.
San Francisco: 1671 Galvez Ave., VA 4-8140
ALTA ROOFING CO.
San Francisco: 1400 Egbert Ave., MI 7-2173
REGAL ROOFING CO.
San Francisco: 930 Innes Ave., VA 4-3261

OOF SCUTTLES
THE BILCO CO.
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Popovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

OOF TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805
SUMMERBELL ROOF STRUCTURES
San Francisco: 420 Market St., EX 7-2796

AFES
THE HERMANN SAFE CO.
San Francisco: 1699 Market St., UN 1-6644

EWER PIPE
GLADDING, McBEAN & CO.
San Francisco: 9th & Harrison, UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121

SHEET METAL
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

SOUND EQUIPMENT
STROMBERG-CARLSON CO.
San Francisco: 1805 Rollins Rd., Burlingame, OX 7-3630
Los Angeles: 5414 York Blvd., CL 7-3939

SPRINKLERS
BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

STEEL—STRUCTURAL & REINFORCING
COLUMBIA-GENEVA DIV., U. S. STEEL CORP.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland, Ore.: 2345 N.W. Nicolai, BE 7261
Seattle, Wn.: 1331-3rd Ave. Bldg., MA 1972
Salt Lake City, Utah: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Hayward: Box 3007, LU 1-4451
INDEPENDENT IRON WORKS, INC.
Oakland: 780 Pine St., TE 2-0160
JUDSON PACIFIC MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 New Montgomery St., GA 1-0977
Los Angeles: Edison Bldg.
Seattle: White-Henry Stuart Bldg.
Salt Lake City: Walker Bank Bldg.
Denver: Continental Oil Bldg.

STEEL FORMS
STEELFORM CONTRACTING CO.
San Francisco: 666 Harrison St., DO 2-5582

SWIMMING POOLS
SIERRA MFG. CO.
Walnut Creek, Calif.: 1719 Mt. Diablo Blvd.

SWIMMING POOL FITTINGS
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143

TESTING LABORATORIES
(ENGINEERS & CHEMISTS
ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697
ROBERT W. HUNT COMPANY
San Francisco: 500 Iowa, MI 7-0224
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

TILE—CLAY & WALL
GLADDING McBEAN & CO.
San Francisco: 9th & Harrison Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 945 Elliott Ave. West, GA 0330
Spokane: 1102 No. Monroe St., BR 3259
KRAFTILE CO.
Niles, Calif.: Niles 3611
San Francisco: 50 Hawthorne St., DO 2-3780
Los Angeles: 406 So. Main St., MA 7241

TILE—TERRAZZO
NATIONAL TILE & TERAZZO CO.
San Francisco: 198 Mississippi St., UN 1-0273

TIMBER—TREATED
J. H. BAXTER CO.
San Francisco: 200 Bush St., YU 2-0200
Los Angeles: 3450 Wilshire Blvd., DU 8-9591

TIMBER TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805

TRUCKING
PASSETTI TRUCKING CO.
San Francisco: 264 Clementina St., GA 1-5297

UNDERPINNING & SHORING
D. J. & T. SULLIVAN
San Francisco: 1942 Folsom St., MA 1-1545

WALL PAPER
WALLPAPERS, INC.
Oakland: 384 Grand Ave., GL 2-0451

WAREHOUSE AND STORAGE EQUIPMENT AND SHELVING
GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

WATERPROOFING MATERIALS
CONRAD SOVIG CO.
San Francisco: 875 Bryant St., HE 1-1345

WATERSTOPS (P.V.C.)
TECON PRODUCTS, LTD.
Vancouver, B.C.: 681 E. Hastings St.
Seattle: 2 Hanford St.

WINDOW SHADES
SHADES, INC.
San Francisco: 80 Tehama St., DO 2-7092

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

ACOUSTIC LABORATORY, Richmond Station, Contra Costa county. University of California, Board of Regents, Berkeley, owner. Construction of a new Acoustic Laboratory; steel frame, concrete slab floors; approximately 4000 sq. ft. of area —$42,287. GENERAL CONTRACTOR: Raffi Badayn, 49 Oakwood Rd., Orinda.

SHOPPING CENTER ADD'N, Lo Bue, San Jose, Santa Clara county. Lo Bue Shopping Center, San Jose, owner. Work comprises construction of additions to the existing Shopping Center—$38,988. ARCHITECT: Binder & Curtis, 39 W. San Carlos, San Jose. GENERAL CONTRACTOR: W. J. Nicholson Co., P. O. Box 390-A, Santa Clara.

APARTMENT, San Francisco. W. Pang, San Francisco, owner. Three story apartment building at Pacific Avenue and Hyde Street; wood frame construction over concrete garages, tar and gravel roofing—$114,699. ARCHITECT: Goetz & Hanson, 2065 Mountain Blvd., Oakland. GENERAL CONTRACTOR: Hugo Muller, Jr., 6089 Claremont Ave., Oakland.

CAPEHART HOUSING, Beale Air Force Base, Yuba County, near Marysville. U. S. Army Engineers, Sacramento District, owner. Work consists of 400 units of armed services housing under the Capehart Act—$6,393,777. ENGINEER: U. S. Engineers, Sacramento. GENERAL CONTRACTOR: Hal B. Hayes & Associates, 13006 Saticoy, North Hollywood.

RUNWAY EXTENSION, Fallon, Nevada. U. S. Navy, District Public Works, San Bruno, California, owner. Work provides for extension of runway at the U. S. Naval Auxiliary Air Station at Fallon, Nevada, concrete, approximately 4000 ft. long by 75 ft. wide; 1-cement high power turn-up apron, 130 x 110 ft.; towaway paving 431 x 36 ft.; 1 stabilized overrun area of 2000 ft.; two crash strip areas of 2000 ft.; asphalt concrete access taxiways; 1 concrete lead-off taxiway with blast pavement at ends of runway and taxiway extension of lighting system. GENERAL CONTRACTOR: Gordon H. Ball, 300 Camille Ave., Danville, California.

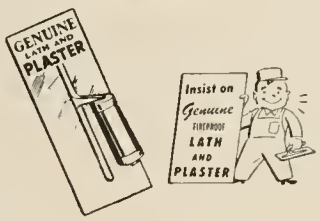
SWIMMING POOL, High School, Winters, Solano county. Winters Joint Union High School District, owner. Work consists of construction of a gunite swimming pool at the Winters High School—$50,000. ARCHITECT: Alfred Graf, Winters. GENERAL CONTRACTOR: Christensen & Foster, 705 Bennett Ave., Santa Rosa.

STORE, Salinas, Monterey county. Sisti Segretti, Salinas, owner. 1-story masonry construction store building — $45,000. ARCHITECT: Waterman & Kuska, 1112 Pajaro St., Salinas. GENERAL CONTRACTOR: Alfred Junker Const., 21 San Carlos Drive, Salinas.

ELEMENTARY SCHOOL, Eisenhower, Santa Clara. Cupertino Union School District, Cupertino, owner. Wood frame con-

struction of a 5-classroom addition to the Eisenhower Elementary School building—$81,352. ARCHITECT: Edwin J. Meyers, S. Highway 9, Cupertino. GENERAL CONTRACTOR: Surety Builders, 1831 Laine Ave., Santa Clara.

BANK, College Branch, Santa Rosa, Sonoma County. Exchange Bank of Santa Rosa, owner. 1-story concrete block construction; composition roofing, air conditioning, heavy timbers, some structural steel; approximately 5500 sq. ft. of area—$82,500. ARCHITECT: Steele & Van Dyk, 3960 Montgomery Dr., Santa Rosa. GENERAL CONTRACTOR: Colombini Const., 608 Wright Ave., Santa Rosa.



Attention: Mr. Architect and Engineer

The Lathing and Plastering Industry offers complete specification and planning assistance. This service is free with absolutely no obligation attached. Call or write the office in your area for immediate service.

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue
San Carlos LYtell 3-2634
Serving San Mateo and Santa Clara Counties.

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street
Oakland 12 GLencourt 2-0313
Serving Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16
GLadstone 1-1879
Serving Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

WHOLESALE GROCERY WAREHOUSE, Oakland, Alameda county. Standard Wholesale Grocery Co., Oakland, owner. New warehouse to provide modern facilities for wholesale grocery business, 80,000 sq.ft. of area—$300,000. ARCHITECT: Theo B. Moist, 355 Grand Ave., Oakland. GENERAL CONTRACTOR: Van Bokkelen-Cole Co., 955 W. Grand Ave., Oakland.

SCHOOL BUS GARAGE, Sonora, Tuolumne County. Sonora High School District, Sonora, owner. Concrete block school bus building for high school—$29,988. ARCHITECT: Horn & Mortland, 2016 Merced Street, Fresno. GENERAL CONTRACTOR: Moore & Johnson, P.O. Box 382, Twain Harte.

MOTEL - RESTAURANT - BAR, Squaw Valley, Placer county. Squaw Valley Inn, Inc., Squaw Valley, owners. New 60-unit motel with restaurant and bar and all facilities; wood frame construction—$304,921. ENGINEERS: Alta Engineers Associates, 20 Second St., San Francisco. GENERAL CONTRACTOR: Wilson & Wedekind, 54 De Luca Place, San Rafael.

NEW SCHOOL-PIEDMONT, San Jose, Santa Clara county. Berryessa School District, San Jose, owner. Wood frame with structural steel beams; provides administration unit and 12-classrooms—$228,391. ARCHITECT: Edw. B. Kress & Associates, 481 No. First St., San Jose. GENERAL CONTRACTOR: James T. Sakaguchi, 154 Jackson St., San Jose.

TEMPLE BETH EL ADD'N, Berkeley, Alameda county. Temple Beth El, Berkeley, owner. 2-Story reinforced concrete construction comprising annex and classroom building—$111,800. ARCHITECT: Mitchell Van Bourg & Associates, Hotel Claremont, Berkeley. GENERAL CONTRACTOR: Jacks & Irvine, 620 Market St., San Francisco.

LOS MOLINOS MEMORIAL, Veterans, Los Molinos, Tehama county. County of Tehama, Red Bluff, owner. 1-Story wood frame construction with composition roofing, concrete slab floors, approximately 8500 sq. ft. of area—$109,722. ARCHITECT: Karl & Davis, 1156 Jackson St., Red Bluff. GENERAL CONTRACTOR: Riverman & Sons, 5309 Fair Oaks Blvd., Carmichael.

MUSEUM, Furnace Creek Section, Death Valley, California. U.S. National Park Service, Dept. Interior, Washington, D.C., owner. Museum building with 300 seating capacity in auditorium; 3400 sq. ft. of exhibit space, administration building and parking facilities—$441,800. ARCHITECT: Welton Becket & Associates, 153 Maiden Lane, San Francisco. GENERAL CONTRACTOR: William A. Drennan, 1325 Castaic Ave., Oildale, Calif.

SPEECH-DRAMA BLDG., State College campus, Fresno. State of California, Dept. of Public Works, Sacramento, owner. Work comprises construction of a Speech-Drama building on the campus of Fresno State College — $1,573,011. ARCHITECT: Anson Boyd, California State Architect, Sacramento. GENERAL CONTRACTOR: Fred S. Macomber & Macomber Const. (JV), 4707 McKinley St., Fresno.

OFFICE BLDG., Los Altos, Santa Clara county. Project Management Corp., Los Altos, owner. 1-Story, wood frame construction with reinforced brick exterior—$47,874. ARCHITECT: John C. Worsley, 549 Market St., San Francisco. GENERAL CONTRACTOR: Harrod & Williams, Inc., 290 So. Murphy Ave., Sunnyvale.

FLOOD CONTROL, San Lorenzo Creek, Alameda county. U.S. Army Engineers, S.F. District, San Francisco, owner. Work consists of construction of the San Lorenzo Creek Flood Control Project—$3,934,527. ENGINEERS: U.S. Corps of Engineers, 180 New Montgomery St., San Francisco. GENERAL CONTRACTOR: Gordon H. Ball Const., 300 Camille Ave., Danville.

HIGHWAY OFFICE BLDG., Redding, Shasta county. State of California, Dept. of Public Works, Sacramento, owner. 2-Story office building and basement, concrete; addition to existing highway buildings—$167,467. ARCHITECT: Anson Boyd, California State Architect, Sacramento. GENERAL CONTRACTOR: Singleton Const. Co., P.O. Box 271, Eureka.

COUNTY HEALTH BLDG., Oakland, Alameda county. County of Alameda, owner. Work consists of the construction of a new County Health building—$1,164,300. ARCHITECT: Anderson, Hyde & Anderson, Bank of America Bldg., Oakland. GENERAL CONTRACTOR: Drake & Piper, 9009 San Leandro St., Oakland.

NEWSPAPER PLANT, Reno, Washoe county, Nevada. Reno Newspapers, Inc., owner. 2-story, structural steel, high weight concrete construction; steel joists, composition roofing; provide facilities for complete operation of daily newspaper plant — $820,543. ARCHITECT: Vhay Associates, 33 E. Truckee River Lane, Reno. GENERAL CONTRACTOR: Walker Boudwin Co., 624 E. Fourth St., Reno, Nevada.

GREEK CHURCH, Oakland, Alameda county. Greek Orthodox Church, Oakland, owner. Work comprises three buildings—Church in dome-shape steel skeleton, wood deck, copper roofing, reinforced concrete; Administration building and Sunday School buildings, both tilt-up construction—$528,890. ARCHITECT: John Lyon Reid & Partners, 1019 Market St., San Francisco. GENERAL CONTRACTOR: Williams & Burrows, 500 Harbor Blvd., Belmont.

HIGH SCHOOL ADD'N, Hanford, Kings county. Hanford Joint Union High

CLASSIFIED ADVERTISING

Do YOU want to hire, buy, sell, rent, find, lose, and otherwise transact business with others in the Construction Industry? If so, your best bet is a CLASSIFIED ad in ARCHITECT & ENGINEER magazine.

SELL that used equipment at a good price; secure competent employees; buy good used equipment; obtain information on wanted materials, etc.

Rates are low 20 cents per word—cash with order—minimum 3 lines. "Position Wanted" ads are half-rate.

Forms close 20th of month preceding date of publication.

ARCHITECT & ENGINEER
MAGAZINE
68 Post Street San Francisco

School District, owner. Work includes a swimming pool, bus garage, filter building, and all facilities — $1,231,000. ARCHITECT: William Hastrup, Crocker-Anglo Bank Bldg., Hanford. GENERAL CONTRACTOR: Bob Long Const. Co., P.O. Box 1623, Fresno.

SCHOOL BUS SHOP, Corcoran, Kings county. Corcoran School District, owner. Work comprises construction of a school bus shop, warehouse and maintenance area building in Corcoran for the Corcoran School District—$45,195. ARCHITECT: Harold Schlintz, 3752 E. Belmont St., Fresno. GENERAL CONTRACTOR: L. B. Pipes Co., 2756 S. Elm St., Fresno.

CHURCH, Sacramento. Memorial Lutheran Church, Sacramento, owner. Concrete construction, 22,000 sq. ft. of area for new Church facilities—$225,000. ARCHITECT: Satterlee & Tomich, 1521 "I" St., Sacramento. GENERAL CONTRACTOR: Erickson Const. Co., 1119 E. Bassettlaw Ave., North Sacramento.

NEW HIGH SCHOOL, Cook, Jr., Santa Rosa, Sonoma county. Santa Rosa High School District, owner. 1-Story, block window wall, composition roofing, glue-laminated wood beams; approximately 60,000 sq. ft. area to provide facilities for administration unit and multi-use building, library building, 12-classroom building and shop building—$859,600. ARCHITECT: Steele & Van Dyk, 3960 Montgomery Dr., Santa Rosa. GENERAL CONTRACTOR: Wright & Oretsky, P.O. Box 2185 Santa Rosa.

EXHIBIT PAVILION, King City, Monterey county. County of Monterey, owner. Construction of a 1-story industrial exhibit pavilion at the King City Fair grounds —$12,360. ARCHITECT: Jerome Kasavan, 7 Winham St., Salinas. GENERAL CONTRACTOR: F. F. Clinton Const., 721 Kilbreath Ave., Salinas.

NEW CHURCH, El Cerrito, Contra Costa county. Mira Vista Congregational Church, El Cerrito, owner. 1-Story wood frame construction embodying all facilities of a church building — $102,743. ARCHITECT: Donald Hardison & Associates, 160 Broadway, Richmond. GENERAL CONTRACTOR: Carl Lundberg, 2803 Mira Vista Drive, El Cerrito.

ELEMENTARY SCHOOL, Sacramento. Arcade School District, Sacramento, owner. 1-Story, structural steel frame and concrete block "Pasadena Avenue" elementary school building comprising Administration offices, 8-classrooms, kitchen, multi-purpose, kindergarten and toilet facilities—$246,666. ARCHITECT: Gordon Stafford, 1024¼ "J" St., Sacramento. GENERAL CONTRACTOR: Schmidt & Tufts, 3560 San Ysidro Way, Sacramento.

JOCKEY QUARTERS, Fairgrounds, Santa Rosa, Sonoma county. County of Sonoma, owner. 1-Story wood frame building for use by jockeys, concrete floors, composition roofing—$60,583. ARCHITECT: J. Clarence Felciano, 4010 Montecito Ave., Santa Rosa. GENERAL CONTRACTOR: R. R. Todd, 915 Beaver, Santa Rosa.

CONVENTION & BANQUET BLDG., Oakland, Alameda county. Port of Oakland, Board of Port Commissioners, Oakland, owner. 1-Story concrete block, structural steel frame and metal roof deck, automatic sprinkler system, 100x200 ft. in area—$375,000. ARCHITECT: Harry A. Bruno, 4319 Piedmont Ave., Oakland. GENERAL CONTRACTOR: Wilco Const. Co., 725 Second St., San Francisco.

DINING HALL & DORMITORIES, Hill AF Base, Ogden, Utah. U.S. Army Engineer, San Francisco, owner. Work includes a dining hall of approximately 16,000 sq. ft. of reinforced concrete floor, slab, concrete wall frame, ventilating, electrical, water, sanitary sewer, gas; and two dormitories, 3-story, for airmen, approximately 26,095 sq. ft. of area in each, reinforced concrete floor, concrete roof slabs, concrete frame, mechanical work, electrical, ventilatng — $2,059,684 (estimate). ENGINEER: U.S. Army Corps of Engineers, San Francisco.

HIGH SCHOOL ADD'N, San Jose, Santa Clara county. San Jose Unified School District, San Jose, owner. Work includes construction of a swimming pool and shower building including all facilities—$137,033. ARCHITECT: Edw. W. Kress & Ernest J. Kump Associates, 363 Park Ave., San Jose. GENERAL CONTRACTOR: Alken Const. Co., 333 Phelan Ave., San Jose.

APARTMENT HOUSE, Pacific Grove, Monterey county. Associated Contractors, Monterey, owner. Work consists of three separate buildings: 1-story and 2-story over garages; wood frame construction—$168,899. ARCHITECT: Robert Batchelor, 341 The Embarcadero, San Francisco. GENERAL CONTRACTOR: Joseph B. Fratessa, P.O. Box 430, Monterey.

CAFETERIA BLDG., Humboldt State College, Arcata, Humboldt county. State of California, Dept. Public Works, Sacramento, owner. 1-Story Cafeteria building on the campus of Humboldt State College; partial ground floor on sloping site; approximately 25,000 sq. ft. of area, wood framing, concrete and structural steel construction—$268,000. ARCHITECT: Anson Boyd, State Architect, State of California, Sacramento. GENERAL CONTRACTOR: MacDonald, Young & Nelson, Inc., 8907 Railroad Ave., Oakland, California.

LABORATORY, Livermore, Alameda county. U. S. Atomic Energy Commission, owner. Construction of 11,000 sq. ft. addition to existing buildings to serve as laboratory; special ventilation, laboratory furniture — $392,282. GENERAL CONTRACTOR: Payne Const. Co., 689 Louisiana St., Oakland.

ELEMENTARY SCHOOL, Campbell, Santa Clara county. Campbell Union School District, owner. 1-story concrete block construction; 4-classrooms—$82,181. ARCHITECT: Higgins & Root, 220 Meridian Road, San Jose. GENERAL CONTRACTOR: N. A. Lamb, 103 W. El Caminito Ave., Campbell.

HORSE BARNS, Fairgrounds, King City, Monterey county. County of Monterey, Salinas, owner. Wood frame construction, aluminum roof — $7,193. ARCHITECT: Waterman & Kuska, 1112 Pajaro St., Salinas. GENERAL CONTRACTOR: Ripley & Dionne, P.O. Box 124, King City.

ON EXHIBIT
CONSTRUCTION MATERIALS CENTER
330 Clay Street, San Francisco

Scott Company
HEATING • PLUMBING
REFRIGERATION
★
San Francisco
Oakland
San Jose
Los Angeles

REMILLARD-DANDINI Co.
Brick and
Masonry Products
★
400 MONTGOMERY STREET
SAN FRANCISCO, CALIF.

ARCHITECT and ENGINEER
Please enter my subscription for ..... year..... My check in the amount of $..... is attached.
1 year $3.00
2 years . . . 5.00
Name.....
City.....
State.....

IN THE NEWS

NATIONAL CONFERENCE OF LANDSCAPE ARCHITECTS SCHEDULED FOR CHICAGO

The 60th Annual Meeting of the American Society of Landscape Architects will be held in Chicago, Illinois, June 28-July 1, with the Chicago Chapter acting as host.

Professional objectives, opportunities, and obligations suggested by the "Vanishing Landscape Theme" will be highlighted in workshop seminars, forums, and general conferences on "Conservation of urban and rural open space," "Arousing public awareness of the landscape as a natural resource vital to human beings," and "Creating leadership in improving American taste."

A record attendance is anticipated from Landscape Architects from all States of the Union and Hawaii.

HERRICK IRON WORKS TO EXPAND NEW FACILITIES

The Herrick Iron Works, pioneer Bay Area steel fabricators who moved into new offices and an entirely new plant in Hayward, California, less than two years ago, now find their office facilities in need of expansion.

Ground was broken recently for construction of an addition, designed by John Carl Warnecke & Associates, San Francisco architectural firm.

BROWN ELECTED NEW PRESIDENT OF ASSOCIATION

John W. Brown, senior vice president of National Gypsum Company, has been elected president of the Asbestos-Cement Products Association of America, according to a recent announcement. He succeeds R. J. Tobin, president of Atlantic Asphalt & Asbestos, Inc.

Other officers elected include R. R. Porter, vice president; H. H. Whittemore, treasurer, and Norton B. Jackson, secretary. Newly elected directors include R. R. Gallaway, vice president of Fiberboard Paper Products Co.; W. B. Wilkinson, vice president, Johns-Manville Sales Corp.; E. J. O'Leary, chairman and president of the Ruberoid Co.; and J. H. Steiner, chairman of the board of Supradur Mfg. Corpn.

WAGE HOUR LAW APPLIES TO EMPLOYEES

Non-professional employees of consulting engineering firms engaged in activities within interstate commerce are subject to the Wage-Hour Act, according to a recent decision of the Supreme Court in its decision in the Lublin, McGaughy Case.

While the decision is binding only on the one firm involved, it is generally recognized as settling the general question of the application of the law to consulting engineers' operations.

The test of coverage given in the 7-to-2 majority opinion is whether the work of the individual employees "is so directly and vitally related to the functioning of an instrumentality or facility of interstate commerce as to be, in practical effect, a part of it, rather than isolated, local activity."

The majority concluded that the work of the employees involved on various interstate projects such as airbases, turnpikes, bus terminals, etc., was "directly and vitally related to the functioning of these facilities because, without the preparation of plans for guidance, the construction could not be effected and the facilities could not function as planned."

ARCADIA METAL PRODUCTS WINS NATIONAL AWARD IN COMPETENCY

Arcadia Metal Products, Fullerton, California, manufacturer of sliding glass doors, windows and window wall systems, has been awarded the "Certificate of Competency" by the Metropolitan Dade County Building and Zoning Department in Miami, Florida, according to an announcement by Robert E. Saffell, manager of the company's southeastern branch.

A series of rigid performance tests with the company's sliding glass door units were conducted at a laboratory in Florida under conditions stipulated by Dade County authorities. Included in this performance evaluation were tests for air and water infiltration, wind load and continuous operation.

MONTE LINDMOE GETS YUBA PROMOTION

Monte Lindmoe, formerly executive vice president of the Southwest Welding and Manufacturing Company, has been named vice president of Yuba Consolidated Industries, Inc., and director of sales for all of Yuba's operating divisions and subsidiaries, according to an announcement by John L. McGara, company president and board chairman.

Lindmoe is nationally known in the steel fabrication industry; is a graduate of the University of Southern California, and has been a resident of Pasadena for over twenty-five years. He will move to San Francisco.

WILLIAM G. McPARTLAND APPOINTED SALES REP BY CALAVERAS CEMENT

William G. McPartland, for the past four years with a Santa Clara hard materials dealer, has been appointed sales representative in Santa Clara, Santa Cruz, San Benito, Monterey and San Luis Obispo counties for Calaveras Cement Company.

McPartland will maintain offices in the San Jose Builders Exchange.

AIA ANNOUNCE WINNERS IN JOURNALISM

George McCue of the St. Louis Post-Dispatch and Frederick Gutheim, architectural critic and planner of Washington, D.C., writing for Harpers Magazine, have been announced as winners of the twin $500 first prizes in the American Institute of Architects' Sixth Annual Journalism Award competition.

The award is made annually in recogni-

STROMBERG-CARLSON®

SOUND EQUIPMENT

These authorized distributors offer complete specification and planning assistance, installation and guarantee — on famous Stromberg-Carlson sound, public address and intercom systems:

S-C STROMBERG-CARLSON

DISTRICT OFFICES

SAN FRANCISCO
STROMBERG-CARLSON COMPANY
1805 Rollins Road,
Burlingame .....OXford 7-3630

LOS ANGELES
STROMBERG-CARLSON COMPANY
5415 York Blvd.....CLinton 7-3939

ENGINEERING DISTRIBUTORS

FRESNO
TINGEY COMPANY
847 Divisadero St. ..... ADams 7-6488

LOS ANGELES
HANNON ENGINEERING, INC.
5290 West Washington Blvd.....WEbster 6-5176

OAKLAND
CUSTOM ELECTRONICS
963 32d Street.....OLympic 3-4179

PHOENIX
RA-TONE ELECTRONICS CO., INC.
325 No. 4th St.....ALpine 8-8793

SACRAMENTO
SEMONI SOUND SERVICE
2181 Weller Way..... GIlbert 3-6435

SAN DIEGO
MUSIC SERVICE, INC.
2408 Fifth Ave. ..... BElmont 2-2589

SAN FRANCISCO
CUSTOM ELECTRONICS
2090 Evans St.....Mission 8-2534

SAN JOSE
CUSTOM ELECTRONICS
87 Bassett St.....CYpress 3-4300

SEATTLE
W. D. LASATER COMPANY
615 No. 35th St.....MElrose 2090

SPOKANE
NORTHWEST ELECTRONICS, INC.
No. 102 Monroe St.....MAdison 9289

PORTLAND
MANCHESTER-CHANDLER CO.
2915 N.E. Alberta St.....GA 8600

Testing & Inspection of All Architectural and Construction Materials

Metallurgists • Chemists Radiographers

Tests and Investigations of Foundation Soils

PITTSBURGH TESTING LABORATORY

651 Howard St., San Francisco 5
Phone: EXbrook 2-1747
Branch Office—741 W. 3rd St., Reno, Nev.

Offices in all principal cities in the United States

tion for outstanding news and features dealing with architectural subjects.

Serving on the Jury of Awards were Miss Jeanne Davern, assistant to the editor, Architectural Record; Thomas W. D. Wright, Washington, D.C., architect; and Wolf Von Eckardt of the AIA public relations staff.

In addition to cash awards, Certificates of Merit or Honorable Mention are given.

STANFORD SUMMER SCHOOL TO INCLUDE SCHOOL WORKSHOP

Master planning is becoming recognized as a must to assure facilities that are educationally adequate and economical at all levels for today and in the future.

Stanford University's School of Education, through its School Planning Laboratory, is devoting two major projects to coordinated school and community planning in its 1959 Summer School program, according to a recent announcement by James D. MacConnell, professor of education and director of the university's School Planning Laboratory.

The School Building Workshop is scheduled for July 6-August 5; and the School Building Institute, July 27-July 31.

UNITED STATES GYPSUM ANNOUNCES EDUCATIONAL FACILITIES FOR TRADE

The first of a series of books and accompanying movies on architectural design in relation to structural environment is nearing completion. The series is being sponsored by United States Gypsum Company as a service to the architectural profession.

The first book, scheduled for publication in May, with the movie to follow in July, was written with the cooperation of Bolt, Beranek & Newman, leading consultants in the field of acoustics.

The entire program is non-commercial, and is being compiled to serve as a single source of the latest information available from the best independent consultants.

ARCHITECT SELECTED FOR MARKET

Architect Tnd Hart, 2550 Valley Road, Sacramento, has been commissioned by Safeway Stores, Inc., Sacramento, to draft plans and specifications for construction of a new Safeway market building in Tracy, San Joaquin county.

The new supermarket will be constructed within the next six months.

EDWARD DIAMOND LEAVES AEC TO JOIN OFFICES OF STROMBERG-CARLSON

Edward Diamond, Associate General Counsel of the Atomic Energy Commission, has resigned his position with AEC to join the Stromberg-Carlson Division of General Dynamics Corporation at Rochester, N.Y., as secretary and general counsel.

Diamond, an authority on third party liability in relation to research and industrial atomic energy activities, is a member of a panel of experts appointed in February of this year by Director General Sterling Cole of the International Atomic Energy Agency to study and make recommendations concerning the legality to the public of persons who engage in the construction, supply and operation of nuclear reactors. He will continue to serve as a member of the group.

PACIFIC CEMENT AND AGGREGATES BUYS HONOLULU FIRM

Pacific Cement and Aggregates, Inc., a leading producer of cement, sand and gravel, and ready-mixed concrete in Northern California and Central California, has announced the purchase of Clarke-Halawa Rock Company of Honolulu.

The new acquisition will be known as Clarke-Halawa Rock Company, Hawaiian Division, Pacific Cement and Aggregates, Inc., according to R. K. Humphries, president of PCA. Included in the transaction are Clarke-Halawa's subsidiaries: Transit Mix Concrete Company, which operates a fleet of 14 modern ready mix trucks; Prestressed Concrete Company; and Construction Services Company, all of Honolulu.

WELL KNOWN ENGINEERING AND AIRPORT PLANNING FIRMS BECOME AFFILIATED

Leigh Fisher and Associates of South Bend, Indiana, world's leading airport planning and financial firm, has become a permanent affiliate of the San Francisco Bay Area firm of Wilsey and Ham, Engineers and Planners, according to a recent announcement made by executives of the two firms.

The move is a direct result of the advent of jet air transport service which now spans the continent and consequently establishes San Francisco as the center of a vast airport planning operation aimed at the conversion of metropolitan air facilities world-wide to meet the needs of the jet age.

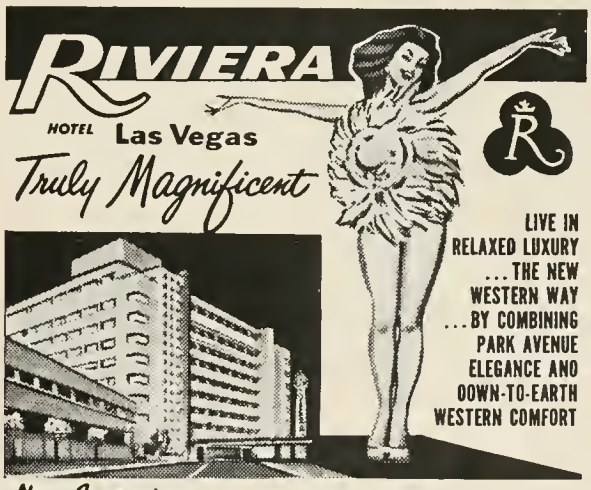
General office of the firm will be located in the Millsdale Industrial Park area, adjacent to the San Francisco International Airport, in San Mateo county.

Fisher's firm is currently serving as consultants in the expansion of the San Francisco terminal and also serves some 140 other civil airports in the United States and abroad. Wilsey and Ham have been associated with a number of major engineering and planning projects throughout the West.

STUDENTS PARTICIPATE IN CONCRETE INSTITUTE NATIONAL PROGRAM

A feature of the recent American Institute convention in Los Angeles was the student competition for outstanding designs and applications for concrete. Sponsored by the Southern California Chapter, presentations of 25 entries in the form of scale models, architectural renderings, and pictorial presentations were on display, with cash awards being made to the four chosen the most outstanding.

Winners, all students at the University of Southern California, included: Yin Li, fifth year architectural student from Peking, China; for rendering of a shopping center; Norman Lacayo, fourth year stu-


RIVIERA
HOTEL Las Vegas
Truly Magnificent
LIVE IN RELAXED LUXURY ...THE NEW WESTERN WAY ...BY COMBINING PARK AVENUE ELEGANCE AND DOWN-TO-EARTH WESTERN COMFORT

Now Appearing . . .

HARRY BELAFONTE

Call your local travel agent for reservations . . .
because the Riviera is THE place to go!

Opening June 1st

DENNIS DAY

LISTEN EVERY WEEK

KNBC
San Francisco
SATURDAYS
8:45 A.M.

KCRA
Sacramento
SUNDAYS
10:30 A.M.

KFIV
Modesto
FRIDAYS
6:00 P.M.

KSRO
Santa Rosa
SATURDAYS
12:15 P.M.

The Construction Industry's Voice on the Air

dent from Managua, Nicaragua, for his rendering of a church; and Edna Dobnoff, Los Angeles, for her rendering of a museum, and Gene Zeller, Fresno, for rendering of a zoo building.

The men serving as judges for the competition were Henry Wright, AIA, Los Angeles; Henry M. Layne, consulting structural engineer; Ernest Maag, structural engineer; and Emil Wohl, general contractor.

CONSTRUCTION SPEC. INSTITUTE TO TOUR OWENS-CORNING PLANT

A trip through the Fiberglas plant of the Owens-Corning Glass Company in Santa Clara has been arranged for the next meeting of the San Francisco Area Chapter, Construction Specifications Institute.

The plant will be in full operation, providing an opportunity to watch both the manufacturing and fabrication of fiberglas.

The tour has been scheduled for May 13, with dinner to be served in the company cafeteria prior to the plant trip.

AMERICAN INSTITUTE TIMBER CONSTRUCTION ELECTS WARD MAYER

Ward Mayer, founder and chairman of the board of Timber Structures, Inc., Portland, Oregon, has been elected president of the American Institute of Timber Construction at their seventh annual meeting at Boca Raton Hotel, Florida. He succeeds L. A. Jacobson, president of the Associated Wood Products, Inc., Berkeley, California.

Other newly elected officers include J. P. Weyerhaeuser, vice president; Frank J. Hanrahan, secretary and executive vice president; Max Hanisch Jr., and Val Gardner, directors.

SCHOOL BONDS VOTED AT ELECTION

Voters of the Dixon Unified School District recently approved the issuance of $600,000 in school bonds with funds to be used for school construction and construction of additions to existing school buildings in the district.

WORLD'S FIRST TRAVOLATOR IN SAN DIEGO

The world's first "Travolator" moving sidewalks were recently opened to the public in San Diego at the Hotel Cortez.

The moving platforms, a new idea in transportation of foot traffic, arch 127 feet across a busy street and connect the main 251-room hotel with a new 138-room motel and 500-car parking garage.

The "Travolators" carry guests and hotel employees back and forth on a series of safety cleated platforms which incorporate the same safety features as modern escalators. They are capable of carrying up to 7,500 people per hour in each direction and provide a direct connection between the new addition and the hotel facilities.

CHAMBER OF COMMERCE BUILDING UNDER WAY IN SUNNYVALE

The architectural firm of Dean Price & Associates, 510 S. Mathilda Street, Sunnyvale, is completing drawings for construction of a new Chamber of Commerce building in Sunnyvale.

The new building will be one story, heavy timber construction with shake roof, and approximately 2,000 sq. ft. of office and exhibit area.

NEW CAMPUS FOR SCHOOL OF THEOLOGY GETS UNDER WAY

Bids for construction of the first unit of the new Southern California School of

VALUABLE NEWS SERVICE

- **BUILDING MATERIAL DEALERS**
- **CONTRACTORS**
- **SUB-CONTRACTORS**
- **MANUFACTURERS AND REPRESENTATIVES**

ARCHITECTS REPORTS gives advance news on construction projects in Northern California, lists: name of projects, location, architect, proposed cost and other pertinent information.

HANDY individual slip-reports, issued daily at a total cost of only
$10 a month

ARCHITECT'S REPORTS
Published Daily
The ARCHITECT and ENGINEER, Inc.

68 Post Street, San Francisco - DO 2-8311

ARCHITECT and ENGINEER

Please enter my subscription for ..... year ....., My check in the amount of $..... is attached.

1 year $3.00
2 years 5.00

Name.....

City.....

State.....

Theology campus at Claremont have been received by the Board of Trustees.

According to Dr. Ernest C. Colwell, president, the first unit will house the initial group of faculty offices and classrooms, a temporary library and a temporary chapel, and will also serve for the present as an administration building pending construction of further facilities.

As supervising architects, Charles Luckman Associates, planning-architectural-engineering firm of Los Angeles, developed a new conception of college architectural design, in association with the Claremont firm of Criley and McDowell.

When fully realized, the total master plan development for the campus will provide all facilities for a full time student body of 300, and approximately 200,000 sq. ft. of building area will be located on the 15-acre site.

PLAN NEW COUNTY COURT HOUSE

The architectural firm of De Longchamps & O'Brien, 160 N. Arlington, Reno, Nevada, is completing plans for construction of a new Washoe County Court House in Reno.

The new building, costing an estimated $2,000,000, will be three stories in height and will provide modern facilities for all Washoe County offices: a new county jail, and garages.

BRANCH Y.M.C.A. BEING PLANNED FOR SACRAMENTO

The architectural firm of Dreyfuss & Blackford, 2127 J Street, Sacramento, is preparing plans and specifications for construction of a new "Northeast Branch" of the Y.M.C.A. to provide facilities for classrooms, multi-purpose rooms, a lounge, two administrative offices, and sanitary facilities.

Located on a newly acquired 5-acre site on Eastern Avenue, north of Robertson Avenue, the project is estimated to cost $150,000.

NEW I.E.S. LIGHTING RECOMMENDATIONS ARE CONSIDERED

The building industry, including architects, engineers, contractors and building product manufacturers, will take a close look at the new Illuminating Engineering Society's recommended levels of lighting for buildings at a conference conducted by the Building Research Institute in Cleveland, May 20-21.

Since the complete report on the studies for I.E.S. at the University of Michigan, which have resulted in the new recommendations, will not be published until June, this meeting will give the building industry an interesting preview of what they may mean to building design and construction from the standpoint of installation, maintenance and system engineering costs.

A unit of the National Academy of Sciences-National Research Council in Washington, the Building Research Institute is a private, non-profit membership organization which draws its members from all branches of the building industry, the architectural and engineering professions, and companies active in the manufacture of building products and materials, as well as educators and government officials.

BOWLING ALLEY PLANNED FOR IRVINGTON

The architectural firm of Cowell & Dennis, Pleasant Hill Professional Bldg., Pleasant Hill, is preparing drawings for construction of a 20-lane Bowling Alley building in Irvington, Alameda County.

The new building—of frame and concrete block construction, with stone facade, acoustical ceilings, composition roofing, air conditioning, and paved auto parking area, will provide also for a cocktail lounge and a coffee shop.

ARCHITECT MUCHOW AWARDED HARDWOOD CONTEST PRIZE

Architect W. C. Muchow of W. C. Muchow Associates, 1730 Glenarm Place, Denver, Colorado, was recently awarded national recognition by the Fine Hardwoods Association, Chicago, Illinois, for an unusual walnut treatment in an architectural design for the Colorado Federal Savings Bank.

The winning project, one of seven awarded in five categories, will be displayed for the balance of the year in the $400,000 hardwoods exhibit at Chicago's world famous Museum of Science and Industry.

NEW LIBRARY BUILDING FOR CITY OF BELMONT

Architect Leslie C. Irwin, 1122 Lyon Street, Redwood City, is completing plans and specifications for construction of a new Library Building in Belmont for the County of San Mateo.

The new building, costing an estimated $175,000, will be of stucco construction, with wood frame and built-up roofing.

JAPANESE BUILDERS STUDY SAN FRANCICO BAY AREA PROJECTS

A team of seven Japanese builders, on a building inspection tour of the United States, sponsored by the International Cooperation Administration, visited numerous Bay Area projects recently.

The visitors were accompanied by two interpreters and HHFA official David G. Webb, Jr. On hand to answer questions, during a visit to Northern and Central

MATTOCK CONSTRUCTION COMPANY

★

BUILDERS

★

220 CLARA STREET
SAN FRANCISCO

ABBOT A. HANKS, INC.
Engineers & Chemists

INSPECTING — TESTING — CONSULTING
CONCRETE • STEEL • MATERIALS
CHEMICAL AND TESTING LABORATORIES
• RESEARCH AND INVESTIGATION •

TESTS OF STRUCTURAL MATERIALS
DESIGN OF CONCRETE MIXES
SHOP AND ERECTION INSPECTION OF STRUCTURES AND EQUIPMENT
INVESTIGATION OF STRUCTURES AND MATERIALS
TESTS AND INVESTIGATION OF FOUNDATION SOILS
FIRE RESISTANCE AND INSULATION TESTS

1300 Sansome Street, San Francisco
Telephone EX 7-2464

MacDONALD YOUNG & NELSON, INC.
General Contractors
8907 Railroad Avenue
Oakland, Calif.
LOckhaven 9-4433

DINWIDDIE CONSTRUCTION COMPANY

•

BUILDERS

•

CROCKER BUILDING
SAN FRANCISCO

ARCHITECT and ENGINEER

Please enter my subscription for ..... year..... . My check in the amount of $..... is attached.

1 year $3.00
2 years 5.00

Name.....

City.....

State.....

MULLEN MFG. COMPANY

BANK, STORE AND OFFICE FIXTURES—CABINET WORK OF GUARANTEED QUALITY
CHURCH SEATING

Office and Factory
60-80 RAUSCH ST., Bet. 7th and 8th Sts.
San Francisco
Telephone UNderhill 1-5815

HERRICK IRON WORKS

STRUCTURAL STEEL
REINFORCING STEEL
PRISON EQUIPMENT
PRELOAD PRESTRESSING

BOX 3007
HAYWARD, CALIF.
Phone LU 1-4451

ROBERT W. HUNT CO.

ENGINEERS

INSPECTING TESTING

STRUCTURAL MATERIALS
CONCRETE MIX DESIGN
CHEMICAL ANALYSIS
EQUIPMENT

PRINCIPAL CITIES
UNITED STATES • EUROPE
SAN FRANCISCO LOS ANGELES
PORTLAND SEATTLE

KOLORBLEN
Concrete Color Hardener
COLOR WAXES
SEALER—STAINS
Conrad Sovig Co.
Distributors—Contractors Concrete Specialties
875 BRYANT STREET
San Francisco • HEmlock 1-1345

California Chapter, Associated General Contractors, headquarters were Bruce McKenzie, Chapter secretary-manager; Anson Boyd, California State Architect; John A. Blume, consulting structural engineer of San Francisco; Clifford Pehl of Bechtel Corporation's International Division and Ken Butte of Fred J. Early, Jr., Inc

COUNTY HEALTH BUILDING FOR YUBA CITY

The architectural firm of Hansen & Winkler, Marysville, is completing drawings for construction of a new County Health Building to be built in Yuba City for the County of Sutter-Yuba.

The new building will provide facilities for doctors' offices, clinics, laboratories, and health official offices. Construction will be one story and about 7000 sq. ft. of area involved.

NATHAN MANILOW NEW NATIONAL HOUSING CENTER BOARD CHAIRMAN

Nathan Manilow, Chicago and Miami, home builder, has been elected Chairman of the Board of Trustees of the National Housing Center, according to a recent announcement. Elected to serve with Manilow were: Thomas P. Coogan, New York City, co-chairman; and Richard D. Hudson, Montclair, N. J., vice-chairman.

The National Housing Center is the eight-story headquarters of the NAHB, and is the focal point of home building activities in the United States. It contains five stories of exhibits of the products of leading manufacturers of home equipment and appliances.

MARRIED STUDENTS HOUSING PLANNED FOR U. NEVADA

The architectural firm of Ferris & Erskine, 458 California Avenue, Reno, Nevada, has completed plans for construction of four separate concrete block apartment buildings on the University of Nevada campus at Reno.

The new facilities will house faculty members and about thirty married students attending the University.

SISALKRAFT SALES IN SOUTHERN CALIFORNIA AND ARIZONA

Jack Green and Charles Hargrave, 633 So. La Brea, Los Angeles, have been appointed sales representatives for the American Sisalkraft Corporation in Southern California and Arizona, according to an announcement by R. S. Youngberg, manager of the Western Division offices in San Francisco.

EDWARD KEATING ELECTED VICE CHAIRMAN OF EKCO

Edward Keating, executive vice president of Ekco Products Company, has been elected vice chairman of the board of directors, a new position.

Grandson of the founder and the third generation of the family to hold a top executive post with Ekco, Keating joined the firm in 1946 after attending the University of California at Los Angeles.

Index to Advertisers

ARCHITECTS Reports	46
BASALT Rock Co.	28
BILCO Co.	*
BRIGGS Beautyware	Back Cover
CALAVERAS Cement	46
CLASSIFIED Advertising	38
DINWIDDIE Construction Company	47
FORDERER Cornice Works	34
GLADDING, McBean & Company	*
GREENBERG'S, M., Sons	*
HAAS & Haynie Const. Co.	33
HANKS, Abbot A., Inc.	47
HAWS Drinking Faucet Co.	31
HERMANN Safe Co., The	33
HERRICK Iron Works	48
HUNT, Robert W., Company	48
JOSAM Pacific Co.	*
JUDSON Pacific-Murphy Corp.	33
KRAFTILE Company	*
LADE, John	25
MacDONALD, Young & Nelson, Inc.	47
MATTOCK Construction Co.	47
McNEAR Brick Co., L. P.	30
MICHEL & Pfeffer Iron Works, Inc.	Inside Front Cover
MULLEN Mfg. Co.	48
PACIFIC Cement & Aggregates, Inc.	29
PACIFIC Manufacturing Co.	34
PITTSBURGH Testing Laboratory	44
PLASTERING Bureaus	42
REMILLARD-Dandini Co.	43
REPUBLIC Steel Corporation	34
RIVIERA Hotel	45
SCOTT Company	43
SHADES, Inc.	43
SIMONDS Machinery Co.	33
SOVIG, Conrad, Co.	48
STROMBERG-Carlson Co.	44
U. S. Savings Bonds	Inside Back Cover
VERMONT Marble Co.	34
WESTERN Structural Tile Institute	*

* Indicates Alternate Months

ARCHITECT AND ENGINEER

CALIFORNIA STATE OFFICE BUILDING . . . San Francisco

BARRETT CONSTRUCTION COMPANY, General Contractors

JUNE 1959

SEQUOIA HOSPITAL, REDWOOD CITY, CALIFORNIA

MODEL SHOWS WING AT RIGHT UNDER CONSTRUCTION

STONE, MARRACCINI & PATTERSON, ARCHITECTS

BARRETT CONSTRUCTION CO.

General Contractors

STEEL SASH
AND ALUMINUM
SLIDING DOORS

ARISTON
Metal Products
SINCE 1912

Michel & Pfeffer Iron Works, Inc.

212 Shaw Road, South San Francisco, California PLaza 5-8983

Fabricators of:
Architectural Metal Work • Steel Buildings • Metal Windows and Doors

ART DEPT.
JUN 4 1959
SAN FRANCISCO
PUBLIC LIBRARY

WHAT'S THE ADVANTAGE OF ELECTRIC HEAT?

Maybe that's a backward way of asking it—but there's a question that ought to be asked a lot more often — by engineers, by architects, and by builders.

Because the answer will be — in a surprising number of cases — *money saved*, *comfort saved*, and *design improved!*

But wait a minute! Everybody knows that in most areas "electric heat costs too much!"

Just like, once upon a time, everybody knew the world was flat — that human flight was impossible—that the smallest thing that lived on earth was the cheese mite.

And today—with jet planes circling our round globe—and doctors still not killing the minute organisms that cause the common cold—today thousands of comfortable Wesix customers are spending *less* money for heating than their neighbors — and are living in better homes — homes designed with freedom only modern electric heating allows.

Are your files up to date on the latest in heating electrically?

NEW HEALTH AND COMFORT - See Page 5

WRITE:

WESIX ELECTRIC HEATER CO.

Dept. AE6

390 First Street

San Francisco 5, California

This is the NEW WEST

Architects Pereira and Luckman utilized versatile U.S.G. products in this dramatic Beckman-Helipot Corporation plant, Newport Beach, Calif.

"The surest test of the civilization of a people ...is to be found in their Architecture"

FROM "THE CONQUEST OF PERU" BY WILLIAM H. PRESCOTT

Over 20 U.S.G. sales offices and plants serving *western* building.

The challenge to push beyond present frontiers is nowhere more urgent than in western building, where the maximum in creative expression has become the minimum requirement. United States Gypsum, through its Architectural Service Department, continually passes on ever-new systems and ideas to free the architect for his true *creative* function. If you are looking for new ways to meet problems beyond the capabilities of conventional materials and methods, perhaps U.S.G. can serve you, too. Write Dept. AE-91, 2322 West Third Street, Los Angeles 54, California.

UNITED STATES GYPSUM

the greatest name in building

USG UNITED STATES GYPSUM

Vol. 217 No. 3

ARCHITECT AND ENGINEER

EDWIN H. WILDER
Editor

CONTRIBUTING EDITORS:

Education
SIDNEY W. LITTLE, Dean, College of Fine Arts and Department of Architecture, University of Arizona, Tucson, Arizona.

City Planning
CORWIN R. MOCINE, City Planning Engineer, Oakland, Califoroia

Urban Planning and Shopping Centers
FRANK EMERY COX, Sales Research & Business Development Analyst, Berkeley, California

Realty Development
ROY P. DRACHMAN, Subdivider and Realty Developer, Tucson, Arizona

School Planning
DR. J. D. McCONNEL, Stanford School Planning Dept., Palo Alto, California

Residential Planning
JEDD JONES, Architect, Boise, Idaho

General Architecture
ROBERT FIELD, Architect, Los Angeles, California

Engineering
JOHN A. BLUME, Consulting and Structural Engineer, San Francisco, California

Advertising
WILLIAM A. ULLNER, Manager

FRED JONES
Special Advertising

★

COVER PICTURE

CALIFORNIA STATE OFFICE BUILDING
Department of Finance
San Francisco

Designed by the State Division of Architecture, Sacramento, and erected by the Barrett Construction Company of San Francisco, General Contractors.

See page 10 for full story on Barrett Construction Company.

ARCHITECTS' REPORTS—
Published Daily
Archie MacCorkindale, Manager
Telephone DOuglas 2-8311

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.; and ART INDEX

Contents for

JUNE

EDITORIAL NOTES 4

AIR ION CONTROL IN HEATING, AIR-CONDITIONING 5
By W. WESLEY HICKS, E. E.

NUT TREE, Famed California Restaurant Takes on a New Look, Vacaville, Calif. 6
Dreyfuss & Blackford, Architects. Walter Buehler, Structural Engineer.
Continental Construction Company, General Contractors.

ARCHITECT DESIGNS HILLSIDE RESIDENCE FOR OWN FAMILY USE, Richmond, California 8
Donald L. Hardison, AIA, Architect. Elmer Steigelman, Structural Engineer.
R. E. Bartlett, General Contractor.

THE BROTHERS BARRETT, Following A Tradition of Quality Construction, San Francisco, California 10
By MEL COLE and J. H. TOLAN

Featuring design of:
California State Division of Architecture
Hertzka & Knowles, Architects
Frank W. Trabucco & Hurlbut, Architects
Frank C. Treseder, Architect
John Gloe, Architect
Milton T. Pflueger, Architect
Ernest J. Kump, Architect
John S. Bolles, Architect
Gene Verge & R. N. Clathworthy, Architects
Binder & Curtis, Architects
Elston & Cranston, Architects

LATHING & PLASTERING INFORMATION 24
By ROBERT E. SCOTT, Field Representative, Lathing and Plastering Institute of Northern California.

AMERICAN INSTITUTE OF ARCHITECTS—Chapter Activities . . . 26

WITH THE ENGINEERS—News and Notes 28

BOOK REVIEWS, Pamphlets and Catalogues 33

ESTIMATOR'S GUIDE, Building and Construction Materials 35

BUILDING TRADES WAGE SCALES, Northern, Central & Southern California 37

CLASSIFIED ADVERTISING 38

ESTIMATOR'S DIRECTORY, Building and Construction Materials . . . 39

CONSTRUCTION CONTRACTS AWARDED and Miscellaneous Data . . 41

IN THE NEWS 44

INDEX TO ADVERTISERS 48

THE OLDEST PROFESSIONAL MONTHLY BUSINESS MAGAZINE OF THE ELEVEN WESTERN STATES

ARCHITECT AND ENGINEER (Established 1905) is published on the 15th of the month by The Architect and Engineer, Inc., 68 Post St., San Francisco 4; Telephone EXbrook 2-7182. President, K. P. Kierulff; Vice-President and Manager, L. B. Peahorwood; Treasurer, E. N. Kierulff. — Los Angeles Office: Wentworth F. Green, 439 So. Western Ave., Telephone DUnkirk 7-8135 — Entered as second class matter, November 2, 1905, at the Post Office in San Francisco, California, under the Act of March 3, 1879. Subscriptions: United States and Pan America, $3.00 a year; $5.00 two years; foreign countries $5.00 a year; single copy 50c.

. EDITORIAL NOTES .

DECORATIVE CEILINGS

Decorative ceilings, popular since ancient times but more-or-less neglected in post-World War II home construction, are reported to be coming "back" in a big way. The reason: development of a new building product . . . low cost fibreboard ceiling tiles imprinted in striking patterns that give a new lift and life to any room in the house.

According to Jay Simpson, home improvement specialist, a potential market of 25 million homes for the new tiles, which include patterns that suit either the modern or traditional taste, now exists.

Simpson divides the present market for decorative tiles into six main groups: 1) The 10 million homes that will require ceiling repairs this year; 2) The 9 million homes that will require interior painting where ceiling tile may eliminate the need for some repainting; 3) The 1.2 million new homes to be built; 4) The 2.5 million older homes to be sold and redecorated by new owners; 5) The 1.4 million homes where basements and attics will be finished; 6) The 1.4 million homes where additional rooms will be built.

Added to this market could be the growing popularity of decorative fibreboard ceiling tiles in commercial and public buildings.

* * *

There are some 1,506 different scientific and technical professional groups and societies in the United States and Canada. Each represents a separate field of scientific specialization.

* * *

SCHIZOPHRENIC SPENDING

Most families of our acquaintance would be in serious financial trouble within a month if they ran their household finances the way Congress deals with the Federal budget.

The fact is that Congress has no single committee, either in the House or the Senate, to cope with budgetary matters. Such intimately related problems as spending, revenue and debt management are acted upon by different committees at different times. Hence, Congress never considers the budget as a whole.

It's a bit as though the various members of the congressional family were spending as they saw fit, without knowing exactly how much was in the national till, or what the spending plans of other household members might be. Everybody seems to get into the act of spending your taxes.

The major committees presumably assigned to deal with budgetary matters are the House Ways and Means Committee, the House Appropriations Committee, the Senate Finance Committee, the Senate Appropriations Committee, the Joint Economic Committee and the Joint Committee on Internal Revenue Taxation.

But in addition, legislative committees can authorize spending without reference to the appropriations committee, and hence without consideration of the effect of any one spending measure upon total spending authorizations.

It's no wonder that when a congressional session ends, no one really knows how much of the taxpayers' money the government has been authorized to spend.

What is needed is a "center of financial management" for Congress, a head of the budgetary household—same as in any business or family—to deal with spending, tax and debt measures as they relate to each other. This might be a major committee with jurisdiction over all budget items and fiscal matters for Congress or a separate committee for each house.

The present confusion only clouds the nation's economic future and postpones much needed tax relief to the long, but long, forgotten taxpayer.

* * *

Annual expenditures by American industry for scientific research and development grew from 100 million dollars in 1933 to two and a half billion dollars in 1953. It is expected to reach 10 billion dollars by 1973.

* * *

AU REVOIR

Spanning the years from 1905 until now—some 54 years—ARCHITECT & ENGINEER magazine has been published with the sincere purpose of rendering a constructive service to the Architectural and Engineering professions, and thereby to the construction industry. It has been our constant objective and desire to materially assist in the advancement of architecture, engineering, and construction, and to give through the editorials, news, and special features of our magazine a means for the development of a richer understanding between all facets of the construction industry and to those who are most vitally concerned—the public.

This is our last issue, as publishers. Next month's issue will be published by the McGraw-Hill Company of California, new owners of the magazine — an organization well equipped with vision, foresight, and technical experience to develop ARCHITECT & ENGINEER magazine into one of the most outstanding publications of the nation—, and while we sincerely welcome and extend our best wishes to the new owners, we do view with some sense of regret the termination of our era as Publishers.

We shall always cherish the friendships made during the past, and greatly appreciate the many individuals, firms and organizations who cooperated with us over an extended period of years.

ARCHITECT & ENGINEER Magazine.

Air Ion Control in Heating, Cooling, Air-Conditioning

By W. WESLEY HICKS, E.E.

As a necessary part of basic research into the effects of air ions on humans, Wesix engineers have developed simple means for generating negative air ions and for controlling the ion level of air indoors.

Our first ion control equipment became an integral part of our electric space heaters and later took the form of negative ion generators with or without heat.

It was found that space heaters operating at relatively high temperatures, such as certain types of gas and electric heaters, generate an excess of undesirable positive ions unless provision is made for ion control. It has also been observed that in a central system, ducts for supplying the warm or cold air selectively adsorb negative ions and introduce air into the room that is ionically similar to the air in unventilated rooms. Processed air as a rule contains fewer negative ions than fresh outdoor air, with the result that negative ions must be added to restore the normal ion balance required for comfort and health.

Since negative ions are adsorbed by the ducts of central warm air systems, it is appropriate that ions be added at the point of delivery of air into the room and we have found a radioactive source in combination with an electrostatic field most suitable. The Wesix discovery of the simplicity and dependability of these radioisotopes makes ion control feasible, both technically and economically. Natural occurring ions in the atmosphere arise primarily from radioactivity in the soil. The use of radioisotopes for artificial generation of ions comes closer to the natural source of ions than any other means.

A radioactive source has been found to be efficient, safe and economical. Tritium foil is preferred because of its long half-life of thirteen years. Tritium foil is sealed in a manner approved by the Atomic Energy Commission so as to be entirely safe for domestic and commercial applications.

Now that it is possible to control air ions in all types of air conditioning and heating systems, to be complete these systems should include provision for the generation and control of both positive and negative air ions. Environmental comfort includes heating, cooling, filtering, humidification and ionization. With the rapid increase of air pollution in our cities and the increasing need for mechanical filtration of air, ion control becomes particularly important.

Portable ion controlled equipment is feasible and it is not essential that ion generation be combined with an air conditioning system. The radioactive negative ion generators are available in simple desk-top units and in the form of units designed to be placed on the warm air registers in individual rooms. Portable ion controlled electric heaters are available for use in homes—particularly in bedrooms of individuals experiencing respiratory difficulties interfering with their sleep.

Negative air ions are known to have a therapeutic effect on human health and to be particularly helpful to victims of hay fever and asthma and in preventing airborne infection. Positive ions, on the other hand, have been demonstrated to have an irritating effect upon people with sensitive membranes or suffering from hay fever, asthma and other respiratory troubles.

Ion control has been called the "missing link" in air conditioning and serves to eliminate the stuffiness so often reported in air conditioned rooms.

The production of positive ions is inherent in most warm air heating systems. Wet type heating systems and cooling equipment remove desirable negative ions. These situations may be corrected by a continuous supply of negative ions made available by simple, inexpensive means such as the IONAIRE or modifications of it now being adapted to air conditioners, heating and cooling systems and blower-type filters. They can be built into air conditioners and filters or attached to the room side of grilles in warm air systems.

Air conditioning and heating or cooling without ion control should be considered incomplete.

Ion control with a supply of negative air ions makes indoor air like outdoor air at its best or as Nature originally provided it.

Tens of thousands of homes are now equipped with electric heaters incorporating ion control. Schools, churches and offices across the continent are being equipped with electric heaters with built-in ion control.

EXPOSED STEEL FEATURES CANOPY

Entrance to restaurant is featured by six foot overhang canopy that runs 140 feet and is of rigid welded frame from which steel decking is hung.

DREYFUSS and BLACKFORD, Architects.

FAMED CALIFORNIA RESTAURANT

THE NUT TREE

TAKES ON A NEW LOOK

VACAVILLE, CALIFORNIA

The Nut Tree restaurant and shopping center, a famed landmark on Highway 40, has undergone extensive remodeling.

The new dining area is contained in a 128-by-47-foot structure. The building utilizes an exposed steel frame with 6-inch thick concrete tilt-up panels for

CONSTRUCTION

The 21 by 16 foot concrete panels were poured between rigid frames composed of 6-in. steel channels.
Textured surface was used to decorate the interior of the building.

Continental Construction Company, General Contractor

SPECIAL NEW DINING AREA . . . Bird cage runs full width of the room.

sidewalls. These form the structural shell of the building while each of the end bays is closed by plate glass framed between mullions of steel tubing.

The steel framework for the structure consists of eight bents, composed of 14-WF 34 columns and 16-WF 36 beams, shop fabricated in Sacrameno and shipped to the site. These are 21-feet high and offer an interior clear span of 47 feet.

The bents were landed on the foundation plates and tied together with eave struts, composed of 8-b 13-pound sections. High-strength bolts were used in all field connections and greatly speeded erection.

The general contractor cast the 21-by-16-foot concrete panels in a rigid frame composed of welded 6-inch steel channels laid out on the floor of the building, and erected along the perimeter of the building, fastened with intermitten fillet welds between channels and columns.

The panels were poured in continuous operation with special aggregate tan in color and large native rock imbedded, and used to form the interior of the building.

A bird cage housing dozens of varicolored Tanagers was integrated into the design. It covers a full bay in one end of the building and is completely glass enclosed with an open passageway connecting dining areas.

Ceiling of the passageway is covered with exposed steel decking to form the floor of the glass flyway connecting the two portions of the bird cage.

Fluorescent and incandescent lighting fixtures are recessed in the suspended ceiling of rough sawn douglas fir and the wall facing the exposed aggregate is finished in heavy cocoa matting. A new bakery is located adjacent to the dining room.

DINING ROOM

Unique, cool, comfortable, spectacular.

Walter Buehler, Structural Engineer.

VIEW

Of the rear of the house, discloses a steeply slaping lat.

AN ARCHITECT DESIGNS

A HILLSIDE RESIDENCE

FOR OWN FAMILY USE

DONALD L. HARDISON, A.I.A.

RICHMOND, CALIFORNIA

Getting effective floor area on a steep building site is no problem in a family dwelling when structural steel is utilized to carry, and even cantilever, living areas over the steep portions of the slope.

An attractive example of this type of architecture is the home of Mr. and Mrs. Donald L. Hardison, AIA architect. His spacious residence in the El Cerrito foothills is perched over a steep inclined canyon, yet

CARPORT

Steel beams ride over retaining wall to exterior pipe columns, supporting upstairs area.

KITCHEN BARBECUE AREA: Boasts an attractive hood of sheet steel.

the living quarters ride securely across a series of rigid bents, keyed into the front foundation located on the level portion of the lot.

The major living areas of the house, three bedrooms, bath, kitchen, living and dining areas ride on the steel frame, bringing this portion to street level. The foundation and retaining walls are continuous where the hillside is cut back to accommodate the house. Over this portion was erected six rigid half bents of steel, composed of 10-inch wide flange sections weighing 21 pounds to the foot, and which serve as beams to support the house, on 10-foot centers. Three-inch diameter steel pipe was used for the columns on the lower portion of the lot. Three of these bents were 28-feet long. On the back portion of the lot, the three steel beams cantilever 8 feet over the pipe columns, and are tied into the retaining wall on the forward portion.

The living room area rides over this frame, while the lower portion is used for a carport. A chimney of native stone is tied into the end bay, giving further lateral rigidity.

Four other 12-foot-long beams support the kitchen-service-family room. These, too, are cantilevered 7½ feet over the exterior pipe column. The other end of the steel beam, however, is bolted to laminated 2-by-4 columns in the interior studwall of the lower floor. These columns are tied into the poured slab with a U-shaped steel flat. The wood is bolted to the open ends of the U-shaped flat, and the wooden column serves as a tension rather than compression column since the cantilever load is greater than the opposite side of the steel member. The lower floor houses a guest room, study, large play room and workshop.

Hardison also used the strength of steel in interior design. An attractive slate hearth is elevated above floor level and is imbedded in a slab, poured between a rigid frame composed of angles fixed into the mass of the fireplace. A built-in studio couch is legless, supported from the studwall by flat steel angles, bolted to the studding, making vacuuming the wall-to-wall carpeting no problem.

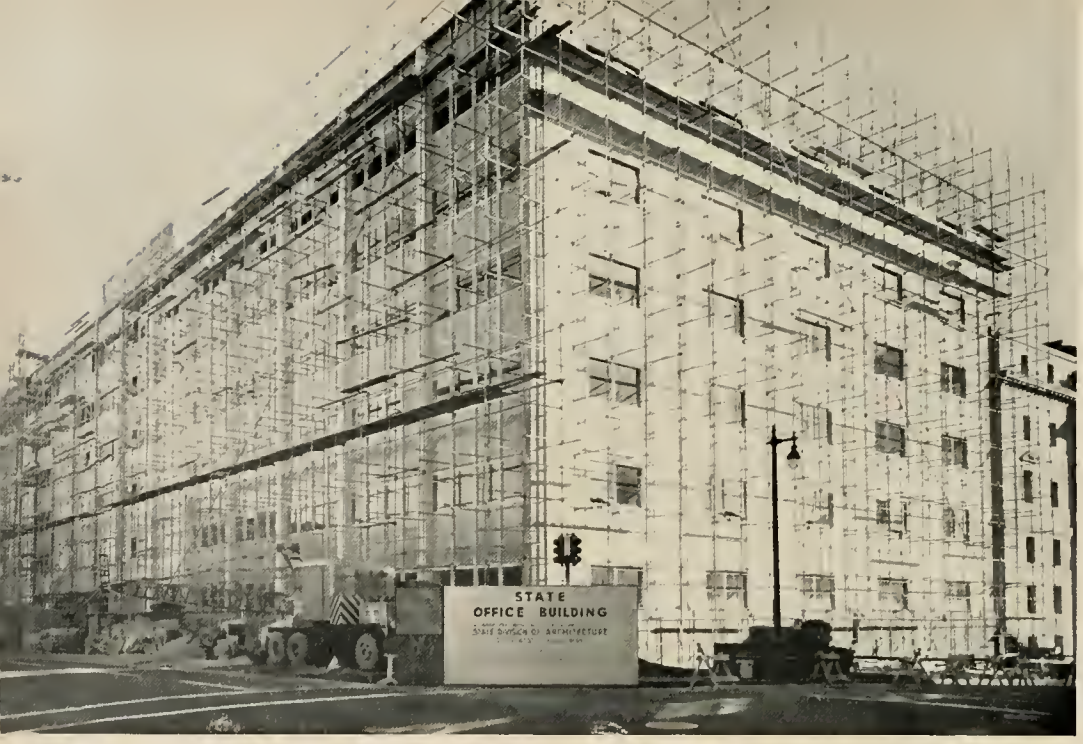
The kitchen, central area of the upstairs living quarters, is served by an indoor barbecue pit hooded with a cove of folded sheet steel and steel sheet chimney.

Contractor was R. E. Bartlett and Elmer Steigelman the Structural Engineer.

LIVING ROOM

Built-in sofa is supported by steel angles bolted to the stud wall.

Raised slate hearth of fireplace rides on rigid frame of steel angles tied to fireplace.



STATE OFFICE BUILDING—Department of Finance, Golden Gate Avenue and Polk Street, San Francisco

Cost over $3,000,000
Floor Area 399,000 sq. ft.

DESCRIPTION—Seven story reinforced concrete building with basement and penthause and connecting bridges ta existing State Building. Exterior is faced with ceramic veneer, ceramic Masaic tile, Granite; aluminum wall siding; aluminum windows and vertical mullians; glazed aluminum entrances, expased concrete at South elevatian and connecting bridges. WORK STARTED September 1957—anticipated completian in 1959 . . . Naw Under Construction.

State Divisian of Architecture, Architect.

THE BROTHERS BARRETT

FOLLOWING A TRADITION OF QUALITY CONSTRUCTION

SAN FRANCISCO, CALIFORNIA

By MEL COLE and J. H. TOLAN

Barrett Construction Company, San Francisco, operating for six years now (since the dissolution of Barrett & Hilp) has become one of the West's most vigorous and flexible young building organizations.

Still feeling the recent loss of senior partner J. F. Barrett, the sons, John Barrett and Richard Barrett,

already have convinced their competitors that they are here to stay and here to grow. The young brothers are backed by twenty years of their father's supervision — by specialized training and abundant experience as general contractors. As they approach mid-1959 they are maintaining and increasing their volume of business as programmed and planned.

A readiness to meet changing business conditions head-on has been a consistent Barrett trademark. This kind of resiliency, plus a talent for overcoming their customers' problems of financing, design, material, and a special ability to conduct operations outside

MOORE'S STORE

Post & Kearny Streets, San Francisco

Cost approximately $400,000.00

Three and a half story Retail Store; reinforced concrete with street fronts faced with ceramic veneer and granite.

Started 1956

Completed 1957

Hertzka & Knowles, Architect

the scope of traditional contracting, has resulted in sustained and expanding business volume.

Both Barrett brothers are skilled in the art of government liaison. They have been required to know well technical and policy-making federal, state, and local officials, especially those who control armed services, airline, hospital, housing, public works, mortgage and other building program aids.

General Superintendent of Construction for the firm is the 45-year veteran George V. McKeever. Most of the field superintendents have supervised an almost unlimited variety in heavy industrial construction from foundations of the Golden Gate Bridge, gigantic concrete ships, massive federal dams, great hospitals, to navy yards and military encampments.

On General Superintendent McKeever's team are

AIRLINE BUS TERMINAL

Taylor and O'Farrell Sts., San Francisco

Reinforced concrete and structural steel construction. Basement, ground floor and mezzanine. TICKET facilities for all major airlines and business facilities for transportation to-and-from airport.

Started 1958 **Completed 1959**

Frank W. Trabucco & Hurlbut, Architects

CRIMINAL LEGAL BUILDING . . . San Jose, California

Cost $600,000.00

Concrete and masonry construction—Court Rooms, District Attorney and Adult Probation facilities in 30,300 sq. ft. area.

Started 1957
Completed 1958

Frank C. Treseder, Architect

fourteen key field superintendents. Average experience of this group, working under the Barrett name, is 20 years. Four of the field superintendents have been on the job steadily for over thirty years. Their recommendation for leading a long and active life might well be to prescribe working for Barrett Construction.

Out in the healthy Livermore Valley you will find the Barrett Company sign posted over the new Atomic Energy Fuel Element Building which is being constructed under the supervision of James A. Lindsay who has been with Barrett for thirty-seven years.

Scattered throughout San Francisco and the Peninsula you will find Barrett Construction Company crews busily engaged in miscellaneous construction, remodeling, conversion, and building expansion jobs, all of which are under the supervision of Gerald I. Hogan, 36 years with the firm. Hogan is a skilled administrator. He knows key officials in hundreds of local firms. Hogan is called in for work involving

MARINE FIREMEN'S MEMORIAL BUILDING

Second and Tehama Streets, San Francisco

DESCRIPTION—Two story, reinforced concrete building with exterior faced with marble on street sides. Interior finished in wood and marble. Contains meeting halls, business offices, and cafeteria.

Started August, 1956 **Completed April, 1957**

John Gloe, Architect

anything from a few hundred dollars to a quarter of a million. He is presently working with firms as large as Standard Oil Company and as small as individual owners who desire custom remodeling. Field Superintendent Ray Trudell, with Barrett since 1953, is Hogan's right hand assistant.

And up in San Francisco's civic center a great Barrett team is putting the final touches on the $6,500,000 office building for the State of California. Project Manager Jack Connelly, 33 years' experience with the same organization, and Tom Brennan, 18 years, are turning out one of the finest new buildings in the country.

Superintendent Rolf Jensen, 30 years in business with Barrett, has just been pulled off the almost completed Sequoia Hospital job at Redwood City (where he has been succeeded by Superintendent Don Peabody). Jensen is now laying out the foundations for the gigantic new El Camino Hospital, Mountain View, a $6,500,000 job recently awarded to Barrett Construction Company.

After a year's work on shopping centers, remodeling St. Francis Hospital and the Olympic Club, Superintendent James L. Warn, 26 years' experience, is about to start the second unit of "The Plaza"—Richmond,

(See Page 21)

GYMNASIUM BUILDING

University of San Francisco

Cost $900,000.00

Contains 73,720 sq. ft. of area basement, ground floor and balconies.

Started May 1957
Completed Oct. 1958

Milton T. Pflueger, Architect.

RICKEY'S MULTI-STORY HOTEL

Palo Alto, California

Approximate Cost $1,000,000.00

DESCRIPTION—Six story reinforced concrete building surrounded by motel, with exterior elevator.

Work Started February, 1957 **Completed November, 1957**

Ernest J. Kump, Architect.

A One Million Dollor Project.

SANTA CLARA COUNTY JAIL
AND SHERIFF'S OFFICE
First and Rosa St., San Jose, California

Reinforced Concrete Construction. Facilities for Sheriff's department and housing for prisoners. Three story and basement.

Started 1956 **Completed 1957**

Frank C. Treseder, Architect.

CORTE MADERA

SHOPPING CENTER

Marin County, California

J. C. PENNEY and W. T. GRANT Stores

DESCRIPTION—Tilt-up concrete construction of walls. Poured in place concrete forms.

Worked Started May, 1957 **Completed 1958**

John S. Bolles, Architect.

QUEEN OF THE VALLEY

HOSPITAL

Napa, California

54,340 Sq Ft. of Floor Area

DESCRIPTION—General Hospital with facilities to operate at a ninety-seven bed capacity. CONSTRUCTION—poured-in-place and pre-cast concrete walls and slabs.

Work Completed 1957

Gene Verge and R. N. Clathworthy, Architects

PLASTERING

LATHING & PLASTERING CONTRACTOR

Interior & Exterior
PLAIN & ORNAMENTAL

MIssion 7-6414

PATRICK J. RUANE, INC.
44 SAN JOSE AVE.

FACULTY RESIDENCE and CHAPEL

University of San Francisco

Five Story and basement of reinforced concrete. Totol flaar area 66,160 sq. ft.

Storted September, 1957
Completed April, 1959

Milton T. Pfleger, Architect

SITE CLEARING — FILLING — — GRADING —

on the following Barrett building projects by

DEVINCENZI & HASKINS:

State Office Building

Airlines Bus Terminal

Faculty Residence and Chapel, U.S.F.

St. Mary's Hospital Addition

DEVINCENZI & HASKINS

Pioneers in

Excavating and Grading

SINCE 1892

440 Anza St., San Francisco

Phone: SK 1-2950

SAINT FRANCIS HIGH SCHOOL . . . Mountain View, California

Concrete and masonry construction — Classroom building has 22,000 sq. ft. of area.

Started and completed 1956.

Binder & Curtis Architects

ESTABLISHED 1920

NECA

LYNCH
electric
COMPANY, Inc.
CONTRACTORS • ENGINEERS
937 McALLISTER STREET

INDUSTRIAL
ILLUMINATING ENGINEERING
COMMERCIAL—INDUSTRIAL WIRING

COMMERCIAL
LIGHTING FIXTURES
FIRE ALARM SYSTEMS

FIXTURES
WEst 1-5158
EMERGENCY PHONE BAyview 1-2943

ARMSTRONG
Resilient Floor Covering
installation supplied by
LINOLEUM SALES CO.
1706 San Pablo Ave.
BERKELEY LA 6-1610

SAINT MARKS

EPISCOPAL CHURCH

600 Colorado Avenue, Palo Alto

Started and completed 1956

One Story, Part Concrete and Wood Frame.

Elston & Cranston, Architects

(From Page 24)

the first successful subdivision constructed on the West Coast under the federal and state urban redevelopment program. Warn, with his teammate LeRoy Lugo, pioneered the reconstruction of the World War II temporary housing areas which left post-war Richmond critically blighted. The old "temporaries" have been removed. They will be replaced by Barrett-built quality homes on some 1200 lots now being readied for construction and by over 650 new apartment units. A test program of 100 homes has been completed and sold, earning Richard H. Barrett national prominence for his aggressive leadership in fostering urban renewal, new architectural designs, and new long-term financing under Section 220 of the National Housing Act. The cultivated cost consciousness of the firm has resulted in wide recognition of the fact that Barrett is consumer and value minded in home con-

CONGRATULATIONS

TO BARRETT CONSTRUCTION CO.
for their outstanding
building achievements.

PERSON & WIK, Inc.

MASONRY CONTRACTORS

1025 Industrial Way Burlingame
Phone: DI 2-5256

ROOFING
OUR SPECIALTY

INDUSTRIAL COMMERCIAL
RESIDENTIAL
ASPHALT & COAL TAR
PITCH ROOFING
MASTIC FLOORS AND
WATERPROOFING

Regal Roofing Co., Inc.

VALENCIA 4-3261

CORTE MADERA SHOPPING CENTER

BARRETT CONSTRUCTION COMPANY
General Contractor

PLUMBING, HEATING, VENTILATING AND AIR CONDITIONING
By

F. W. SPENCER & SON, INC.

437 POTRERO AVE., SAN FRANCISCO
Phone: UN 1-6412

MILLWORK
by
EMANUEL

AIRLINES BUS TERMINAL
SEQUOIA HOSPITAL.
Redwood City

EMANUEL MANUFACTURING CO.

1485 Bayshore Blvd., San Francisco
JU 4-7811

BARRETT CONSTRUCTION . . .

Science Building Addition

SAN JOSE STATE COLLEGE

San Jose, California

Reinforced Concrete Building with basement and three floors of classrooms.

Started February, 1956
Completed 1957

Architect
California
Division of
Architecture

It has been a pleasure working with Barrett Construction Co., supplying lumber on many of their fine projects illustrated in this issue.

●

ROLANDO LUMBER CO., INC.

32 Years' Participation in the Golden Growth of California

FIFTH AND BERRY STS., SAN FRANCISCO • PHONE: SU 1-6901

ANGELO J. DANERI, INC.

LATHING
AND PLASTERING

1433 FAIRFAX AVENUE
SAN FRANCISCO 24, CALIF.
ATwater 8-1582

. . . BARRETT CONSTRUCTION

SAINT FRANCIS

MEMORIAL

HOSPITAL

Bush and Hyde Streets
San Francisco, California

Frank W. Trabucco & Hurlbut, Architect

struction. In recent years the average Barrett-built home has been reselling at $1500 to $2000 above original sales price within 18 months after completion.

Another long-term employee with the Barrett organization is field superintendent Harry Mullin, 18 years. Now supervising the St. Mary's hospital addition in San Francisco, Mullin recently completed the new Rickey's Hotel in Palo Alto. He also handled the construction of one of the most beautiful school buildings in America recently — Notre Dame School, Belmont.

Pride of Joseph Olson, a 22-year veteran superintendent, is the new $1,100,000 Chapel and Faculty

(See Page 25)

MARBLE ENTRANCES

Give regal dignity to
State Office Bldg. Annex
St. Mary's Hospital Addition.

INSTALLED BY

THE DONDERO MARBLE CO.
SAN FRANCISCO, CALIFORNIA

XAVIER HALL, University of San Francisco faculty residence, Milton T. Pflueger, A.I.A., architect; Barrett Construction Co., contractor, is equipped with 205 projected and casement windows, Series 300, manufactured and installed by

UNIVERSAL WINDOW CO.
950 Parker Street, Berkeley, California · THornwall 1-1600
Representatives in principal cities of the West

PLUMBING
HEATING
VENTILATING
AIRLINES BUS TERMINAL
by
JAMES A. NELSON CO.
1375 Howard St., San Francisco
Phone: HE 1-0140

LATHING AND PLASTERING

INFORMATION

Sponsored by the following Cooperative Groups

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street, Oakland 12, GLencourt 2-0313. Servicing Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue, San Carlos, LYtell 3-2634. Servicing San Mateo and Santa Clara Counties.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16, GLadstone 1-1879. Servicing Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

LATH and PLASTER IN THE HOME

by

Robert E. Scott, Field Representative

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA

2224 Webster St., Oakland, California

In the past centuries, people have developed an evaluation of proportion, symmetry and fitness in homes even as in these days children are taught music appreciation.

This architectural appreciation which merits encouragement, is due to the observation that there is opportunity for better living in homes which have been carefully planned and designed by skillful architects. Equally necessary, to attain the planned results, is the competency of master craftsmen working under the direction of experienced builders.

As "personalized habitations" homes architecturally planned and carefully constructed have a marked influence upon the lives of the occupants, and specifically also on those who are merely passers by.

People buy houses to weave the charm and beauty of the home about them. That takes both time and sound materials, which can take the polish that living imparts to them. That is why homes are built for occupancy not for a brief period, but for years and years and generations. Thus establishing the fact that most families buy only one or at the most two houses in a life time.

There is nothing so endearing as a home of pleasant associations; and nothing is more important to the well being of this country than a nation of such homes.

For centuries, plastering has played a most important part in making the homes of mankind friendly, comfortable and pleasant. Even though lathing and plastering dates back to primitive times, the industry through its manufacturers, contractors and journeymen has kept perfecting materials and workmanship until this very day. As a result, modern quality lathing and plastering reflects not only a long, honorable, and appreciated record of experience and achievement, but it is fully abreast of these times of invention and scientific research and development. Lath and plaster now proudly stands at the forefront with other modern materials of construction, and is of high significance there in helping make homes more attractive, permanently fire resistant and healthful. Be smart, "have the new look backed by age-old quality"—use lath and plaster.

SCHOOL OF ARCHITECTURE APPROVED AT ARIZONA STATE UNIVERSITY

A School of Architecture has been established at Arizona State University by the Board of Regents in response to requests supported by recommendations of a special study committee of The American Institute of Architects.

The Regents also approved Arizona State University requests to change the title of its Bachelor of Science in Architecture degree to Bachelor of Architecture Degree, and to alter the title of James W. Elmore, AIA, Associate Professor of Architecture and Head of the Division of Architecture to Professor and Director of the School of Architecture. The requests to the regents were made in anticipation of continued development of the Arizona State University architectural program and in preparation of accreditation of the program of study by the National Architectural Accrediting Board.

A four-year Bachelor of Science degree in architecture has been offered at Arizona State University since 1949 with a curriculum directed by professors who are registered architects. In February, 1957, the regents approved the expansion of the offering to provide a five-year degree program.

AMERICAN INSTITUTE OF ARCHITECTS ANNOUNCE FIRST HONOR AWARDS

College buildings at Concordia Senior College, Fort Wayne, Indiana, and at Wayne State University,

(See Page 32)

(From Page 23)

Building just completed on the campus of the University of San Francisco. Meticulous attention to detail and the production of a lasting, easy-to-maintain structure have been the earmarks of Barrett workmanship.

Behind his parade of "senior" superintendents are such additional key figures as Edward Johnson, who is just about to start a luxury apartment community on "The Mounds" in Burlingame. Johnson's service with Barrett has been interrupted. But his ten years in the ranks, plus 20 years' outside experience, makes him a most valuable key man.

Coming up fast in the vanguard of field responsibility is young Fred Hannak, building the Army's post exchange in Monterey; Eugene Roberson, supervising construction of a large addition to the Camarillo State Hospital; and Frank Olson (Joe's son) who is understudy in hospital work to Rolf Jensen.

In charge of the head office sales department is Col. Rex Daddisman, experienced engineer and indefatigable seeker of jobs of a size sufficient to tax the Barrett resources in personnel, administration and financing. Another chief Barrett aide is George Wells, who has been with them 18 years.

Asked why his company was so successful in sustaining work volume and in keeping key men so steadily employed over the years, John F. Barrett, Jr., answered:

"Well, the best reason is that our organization is so closely knit. The estimating crew and the production crew get to feel that they are making one unified effort to keep our firm highly competitive."

Among the estimating personnel is Architect Fred

(See Page 30)

R. P. **PAOLI** & CO.

2530 LOMBARD STREET SAN FRANCISCO

PAINTING & DECORATING

RESIDENTIAL • COMMERCIAL

Lacquer • Sandblasting • Spray Painting • Steam Cleaning

WEst 1-1632

CERAMIC VENEER
GRANITE and MASONRY
on the
CALIFORNIA STATE OFFICE BUILDING
by
JORGENSEN MASONRY, INC.
610-16th STREET, OAKLAND 12
TE 2-6339
460 PARK STREET, SAN JOSE
CY 2-6987

DRILLED CAISSONS
for
ST. MARY'S HOSPITAL ADDITION
and
UNIVERSITY OF SAN FRANCISCO
GYMNASIUM
FOUNDATIONS
were installed complete
by
GEO. F. CASEY CO.
1337 Second Street, Berkeley
LA 6-8622
FOUNDATION DRILLING CONTRACTORS

We are proud to have been
associated with
BARRETT CONSTRUCTION CO.
on many of their major projects.

NATIONAL TILE & TERRAZZO
Company
198 Mississippi Street San Francisco 7
UN 1-0273

American Institute of Architects

John Noble Richards, President

Philip Will, Jr., 1st Vice-President — Edward L. Wilson, Secretary
Henry L. Wright, 2nd Vice-President — Raymond S. Kastendieck, Treasurer
Edmund R. Purves, Executive Secretary

National Headquarters—1735 New York Avenue, N.W., Washington, D. C.

REGIONAL DIRECTORS—**Northwest District,** Donald J. Stewart, Portland, Oregon; **Western Mountain District,** Frederick H. Porter, Sr., Cheyenne, Wyoming; **California-Nevada-Hawaii District,** Ulysses Floyd Rible, Los Angeles, California.

ARIZONA CHAPTERS:

CENTRAL ARIZONA: A. John Brenner, President (Phoenix); Jimmie R. Nunn, Vice-President; Kemper Goodwin, Secretary; Lester Laraway, Treasurer. Directors: James W. Elmore, Martin R. Young, Jr., David Sholder. Office of Secy., P.O. Box 904, Phoenix

SOUTHERN ARIZONA Edward H. Nelson, President (Tucson); Gerald I. Cain, Vice-President; Robert J. Ambrose, Secretary; David S. Swanson, Treasurer. Directors: Emerson C. Sholer, D. Burr DuBois, Santry Fuller. Office of Secy., 2447 N. Stone, Tucson.

COAST VALLEYS CHAPTER:

William L. Higgins (San Jose), President; Paul J. Huston (Palo Alto), Vice-President; William H. Dasoking (Menlo Park), Treasurer; Edward N. Chamberlain (San Jose), Secretary. Office of Secy., 390 Park Ave., San Jose.

CENTRAL VALLEY OF CALIFORNIA:

Joseph J. Jozens, President (Sacramento); Armsby Tod Hart, Vice-President; Albert M. Dreyfuss, Secretary; Whitson W. Cox, Treasurer. Office of Secy., 2127 "J" St., Sacramento.

COLORADO CHAPTER:

Casper F. Hegner, President; C. Gordon Sweet, Vice President; Norton Polivnick, Secretary; Richard Williams, Treasurer. Directors: James M. Hunter, Robert K. Fuller, Edward L. Bunts. Office of Secy., 1225 Bannock St., Denver, Colorado.

EAST BAY CHAPTER:

George T. Kern, President; W. Roland Gibbs, Vice-President; Frank Lockwood, Secretary; Arthur Iwata, Treasurer. Directors: Robert J. Gianelli, Robert Oyarzo, Gerald McCue. Marjorie Montgomery, Exec. Sec'y. Office, Mezzanine, Hotel Claremont, Berkeley 5.

IDAHO CHAPTER:

Jed Jones, III, President (Boise); Clint Sundberg, Vice-President (Idaho Falls); Rod J. Grider, Sec-Treas. Director, H. Curtis Finch, Charles W. Johnston. Office of Secy., 205 N. 5th, Boise.

MONTEREY BAY CHAPTER:

Robert Stanton, President (Carmel); Walter Burde, Vice-President; William L. Cranston, Secretary; George Kuska, Treasurer. Office of Secy., P.O. Box 1846, Carmel.

MONTANA CHAPTER:

William J. Hess, President (Great Falls); John E. Toohey, Vice-President (Billings); H. C. Cheever, Secy.-Treas. (Bozeman). Directors: Oscar J. Ballas, Wm. J. Hess, John E. Toohey. Office of Sec., Bozeman, Montana.

NEVADA CHAPTER:

RENO: Howard Brandis, President; Russell Clopine, Vice-President; Ralph A Casazza, Secretary; John Crider, Treasurer. Directors: Graham Erskine, George L. F. O'Brien, Lawrence A. Gulling, Albert Alegre. Office of Secy., 232 W. 1st. St., Reno.

WOMEN'S ARCHITECTURAL LEAGUE: (Reno) Eileen Casazza, President, Jane Brandis, Vice-President; Jane Mathews, Secy., Enid Hellman, Treasurr.

LAS VEGAS: Walter F. Zick, President; Aloyius McDonald, Vice-President; Edward B. Hendricks, Secy.-Treas. Directors: Walter F. Zick, Edward Hendricks, Charles E. Cox. Office of Secy., 106 S. Main St., Las Vegas.

NEVADA STATE BOARD OF ARCHITECTS:

Russell Mills, Chairman (Reno); Aloysius McDonald, Sec-Treas. Members: L. A. Ferris, Elmo C. Bruner, Edward S. Parsons. Office, 1420 S. 5th St., Los Vegas.

NORTHERN CALIFORNIA CHAPTER:

Donald Powers Smith, President; Corwin Booth, Vice-President; Joseph Esherick, Secretary; Richard S. Banwell, Treasurer. Directors: John W. Kruse, John L. King, Alexander Yuill-Thornton, Andrew Hass, May B. Hipshman, Exec.-Sec'y. Office, 47 Kearny St., San Francisco.

ORANGE COUNTY CHAPTER:

William T. Jordan, President (Costa Mesa); Donald M. Williamson, Vice-President (Laguna Beach); J. Herbert Brownell, Secretary; Rumont W. Hougan, Treasurer. Office of Secy., 1950 W. Coast Highway, Newport Beach.

OREGON CHAPTER

Albert W. Hilgers, President; Robert C. Douglas, Vice-President; Everett B. Franks, Secretary; John W. Foster, Treasurer. Directors: Norman C. Zimmer, Joseph J. Rudd, John K. Dukehart, Donald W. Edmundson, Daniel McGoodwin. Office of Secy., 512 McKay Bldg., Portland 4.

COAST COUNTIES CHAPTER

William Lorell, head of the Civil Engineering department at San Jose State College, was the principal speaker at a recent meeting of the Santa Clara and Santa Cruz counties in Elliotts Red Coach Inn, near Los Gatos.

The AIA-WAL Arts and Crafts Show, an exhibit of hobbies of architects and their wives, will be held in the mezzanine of Fidaque's at the Town & Country Village in Palo Alto, on May 22-24. The regular meeting of the Chapter will be held in conjunction with this exhibit on May 22.

ARIZONA SOCIETY OF ARCHITECTS

John Brenner was elected chairman of the Council of The Arizona Society of Architects at the annual meeting of the organization in Phoenix.

Elected to serve with Brenner for the ensuing year were Ned Nelson, vice chairman; Gerald Cain, secretary, and Jimmie Nunn, treasurer.

A special committee was appointed to study and recommend a state-wide revised fee schedule with Ralph Haver as chairman.

EAST BAY CHAPTER

The Annual Architecture Awards Dinner was observed at the Faculty Club, University of California.

The Board of Directors have announced a $100 grant-in-aid to a junior student of architecture at the University of California with the college selecting the recipient.

Recent new members include George Nakahara and Harry Nakahara, Corporate Members, and George Klett, Junior Associate.

CHURCH ARCHITECTURE TOUR ANNOUNED

The Northern California Chapter AIA, has announced a tour of Lutheran Churches, Missouri Synod, and other outstanding facilities of the denomination in the Bay Area, June 17-27, under the direction of Mario Corbett, chairman of the Chapter's Church Committee.

Two tours are planned: one through Marin county, the other down the Peninsula, across the bay and return via the east bay.

ARCHITECT Joel Bowman, Mountain View, has been commissioned by the City of Mt. View to design a new Civic Center for the city of Mountain View.

ARCHITECTURAL TOUR OF MEXICO PLANNED

A summer Design Trek to Mexico has been announced by the Department of Architecture, College of Fine Arts, University of Arizona. The thirteen-day tour will be preceded by a three-day orientation period, beginning July 30, on the University campus under the direction of Sidney Little, Dean of the College and head of the department. Tour conductor will be Gordon Heck, Associate Professor of Architecture.

The course offers five units of upper division or undergraduate credit, is reserved for male students in architecture and is limited to thirty persons.

WILLIAM STEPHEN ALLEN, JR., NAMED TO AIA FELLOWSHIP

William Stephen Allen, Jr., distinguished San Francisco architect, has been elevated to Fellow in The American Institute of Architects in recognition of his achievement in design and service to the Institute.

The firm of Anshen & Allen, in which he is a principal, has received numerous national and local awards for excellence of design from the Institute, Northern California Chapter AIA, and other architectural organizations and publications.

Allen has been prominent in Chapter affairs and served as a member of the San Francisco Art Commisison for four years.

SAN FRANCISCO ARCHITECTURAL CLUB

Announcement has been made that the San Francisco Architectural Club has acquired new facilities and will move immediately to 962 Howard Street, San Francisco. Plans are also under way for the acquisition of a permanent location with an eight-year plan under the chairmanship of Francis Capone, House Committee Chairman.

Recent new members include Chris Bell, Kenneth Ekman, Lee Hayes and John Wheelwright.

CENTRAL ARIZONA CHAPTER AIA

The Chapter recently sponsored an architectural exhibit at the Valley Home Show which was held at the Arizona State Fair Grounds in Phoenix.

The show featured custom designed homes in perspectives and drawings by members of the Chapter, and the exhibit booth was attended by members of the AIA and their wives during the showing.

The Salt River Power District is sponsoring an architectural design competition for architects and their employees entitled "Design of an All Electric Kitchen for a Restaurant" with a total award of $500, to be divided equally between the winning entrant and the School of Architecture, Arizona State University.

FREDERICK L. LANGHORST, AIA, San Francisco architect, was a visiting lecturer at the Division of Architecture, Arizona State University, recently.

PASADENA CHAPTER:
Edward D. Davies, President; Keith P. Marston, Vice-President; Ward W. Deems, Secretary; Roland L. Russell, Treasurer; and Directors: H. Douglas Byles, Leland L. Evison, Mal Gianni, and Donald E. Neptune. Office 170 E. California St., Pasadena.

SAN DIEGO CHAPTER:
Raymond Lee Eggers, President; William F. Wilmurt, Vice-President; Lloyd P. A. Ruocco, Secretary; Delmar S. Mitchell, Treasurer. Directors: John C. Deardorf, Richard George Wheeler and Sam Bruce Richards. Office of the Secy., 3603 5th Ave., San Diego 3.

SAN JOAQUIN CHAPTER:
Robert C. Kaestner, President (Visalia); William G. Hyberg, Vice-President (Fresno); Lawrence B. Alexander, Secretary; Edwin S. Darden. Office of Secy., 128 E. 8th St., Hanford.

SANTA BARBARA CHAPTER:
Wallace W. Arendt, President (Santa Barbara); Darwin E. Fisher, Vice-President (Ventura); Walter Tibbetts, Secretary; Kenneth H. Hess, Treasurer. Office of Secy., 630 Para Grande Lane, Santa Barbara.

SOUTHERN CALIFORNIA CHAPTER:
Maynard Lyndon, President; A. Quincy Jones, Vice-President; Howard Morgridge, Secretary; Henry Silvestri, Treasurer. Office of Secty., 208 W. 8th St., Los Angeles.

SOUTHWEST WASHINGTON CHAPTER:
Robert Billsborough Price, President; Robert T. Olson, 1st Vice-President; Donald E. Burr, 2nd Vice-President; Percy G. Ball, Secretary; Alan C. Liddle, Treasurer; Charles T. Pearson and George Leonard Elkvall, Trustees. Office of Secy., 2715 Center St., Tacoma 2, Washington.

UTAH CHAPTER:
W. J. Monroe, Jr., President, 433 Atlas Bldg., Salt Lake City; M. E. Harris, Jr., Secretary, 703 Newhouse Bldg., Salt Lake City.

WASHINGTON STATE CHAPTER:
Harrison J. Overturf, President; Lawrence G. Waldron, 1st Vice-President; Thomas F. Hargis, Jr., 2nd Vice-President; Talbot Wegg, Secretary; David R. Anderson, Treasurer. Office of Secy., Miss Gwen Myer, Executive Secty., 409 Central Bldg., Seattle 4.

SPOKANE CHAPTER:
Wm. C. James, President; Carl H. Johnson, Vice-President; Keith T. Boyington, Secretary; Ralph J. Bisbop, Treasurer; Lawrence G. Evanoff, Carroll Martell, Kenneth W. Brooks, Directors. Office of the Secy., 615 Realty Bldg., Spokane.

HAWAII CHAPTER:
Howard L. Cook, President; Douglas W. Freeth, Vice-President; Francis S. Haines, Secretary; Clifford F. Young, Treasurer. Directors, Richard N. Dennis, Frank Slavsky, William D. Merrill. Office of Secretary, 1410 Kapiolani Blvd., Honolulu 14.

CALIFORNIA COUNCIL, THE A.I.A.:
Lee B. Kline, Los Angeles, President; Wayne S. Hertzka, San Francisco, Vice-President; Thornton M. Abell, Los Angeles, Secretary; Allen Y. Lew, Fresno, Treasurer. Office of the Secretary, 654 So. Saltair Ave., Los Angeles.

CALIFORNIA STATE BD. ARCHITECTURAL EXAMINERS:
Malcolm D. Reynolds, President (Oakland); Kenneth Wing, Secretary (Long Beach); Wendell R. Spackman (San Francisco); Paul Davis (Santa Ana), and Frank Cronin, Executive Secy., 1020 N St., Sacramento 14.

ALLIED ARCHITECTURAL ORGANIZATIONS

SAN FRANCISCO ARCHITECTURAL CLUB:
Orville Hickenlooper, President; Morris Barnett, Vice-President; John Beckman, Secretary; Carvel Johoson, Treasurer. Directors, Frank Barsotti, Frank Capone, Glenn Crellin, Mel Rojko. Office of Secty., 507 Howard St., San Francisco 5.

PRODUCERS' COUNCIL—SOUTHERN CALIFORNIA CHAPTER:
Clay T. Snider, President, Minneapolis-Honeywell Regulator Co., L.A.; E. J. Lawson, Vice-President, Aluminum Company of America, L.A.; E. Phil Filsinger, Secretary, Gladding, McBean & Co., L.A.; William G. Aspy, Treasurer, H. H. Robertson Co., L.A.; Henry E. North, Jr., National Director, Arcadia Metal Products, L.A.; Office of the Secy., 2901 Los Feliz Blvd.

PRODUCERS' COUNCIL—NORTHERN CALIFORNIA CHAPTER:
R. W. Harrington, President, Clay Brick & Tile Ass'n.; P. C. Christensen, Vice-President, Truscon Steel Div., Republic Steel Corpn.; Philip D. Mittell, Secretary, Otis Elevator Co; William E. Black, III, Treas., Libby, Owens, Ford Glass Co.

PRODUCERS' COUNCIL—SAN DIEGO CHAPTER:
Eugene E. Bean, President, Fenestra Inc., James I. Hayes, Vice-President, Westinghouse Electric Co.; E. R. Shelby, Secretary, The Celotex Corp. (El Cajon); Joseph C. Langley, Treasurer, Republic Steel Corp., Truscon Steel Div. (Lemon Grove). Office of Secy., 1832 Wedgemore Rd., El Cajon.

CONSTRUCTION SPECIFICATIONS INSTITUTE—LOS ANGELES:
George Lamb, President; Herman Boisclair, Vice-President; Jack Whiteside, Secretary; Frank Rasche, Treasurer. DIRECTORS: Walter Hageoohm, Raymond Whalley, Martin A. Hegsted, Chas F. Wetherbee, Arthur T. Raitt and E. Phil Filsinger. Advisory Member: R. R. Coghlan, Jr. Office of Secy., Box 26114, Edendale Sta., Los Angeles 22.

CONSTRUCTION SPECIFICATIONS INSTITUTE
San Francisco Area Chapter:
Leonard M. Tivol, President; Emery Theo. Hirschman, Vice-President; Roual D. Shelly, Treas.; William LaGette, Secty. Directors: Frank L. Barsotti, Herman R. Jobst, Walter M. Krohn, Charles S. Pope, Erland Siran. Office of Secty., Kaiser Aluminum & Sales Co., 360 22nd St., Oakland 12.

WITH THE ENGINEERS

Structural Engineers Association of California
Joseph Sheffet, President; J. Albert Paquette, Vice-President; William A. Jensen, Secty.-Treas. Directors: R. W. Binder, C. M. Herd, H. J. Degenkolb, H. F. Finch, J. M. Sardis, D. M. Wilson and H. S. Kellam. Office of Secty., 64 Pine Street, San Francisco.

Structural Engineers Association of Northern California
Charles De Maria, President; Leslie W. Graham, Vice-President; Samuel H. Clark, Secty; H. Robert Hamill, Asst. Secty.; William K. Cloud, Treas. Directors: Chas. De Maria, Leslie W. Graham, Marvin A. Larson, Eric O. Moorehead, J. Albert Paquette, Donald M. Teixeira, Richard J. Woodward. Office of Secty., 417 Market St., San Francisco 5.

Structural Engineers Society of the East Bay
M. P. Superak, President; D. R. Judd, Vice-President; MacGregor Graham, Sec'y-Treas. Office of Sec'y, 1952 Wright Ave., Richmond.

Structural Engineers Association of Central California
A. L. Brinckman, President; Wendell F. Pond, Vice-President; Gordon M. Hart, Sec.-Treas.; Jack S. Barrish, Norman W. Beattie, Albert T. Brinckman, James J. Doody and Wendell F. Pond, Directors.

Structural Engineers Association of Southern California
Harold Omsted, President; Jack Sparling, 1st Vice-President; Roy Johnston, 2nd Vice-President; Marvin J. Kudroff, Secretary. C. M. Biddison, Treasurer. Directors: Carl Nelson, Irvan Mendenhall, William Ropp, Charles Peterson, Robert Wilder and Norman Green. Office of Secty., 2808 Temple Street, Los Angeles 26.

STRUCTURAL ENGINEERS ASSN. OF NORTHERN CALIFORNIA

The May meeting was devoted to the Annual Conference with students of Bay Area colleges and was arranged by Professors Jack R. Benjamin of Stanford University, Ray Clough of the University of California, and William W. Lorell of San Jose State College. Students participating in the program included J. C. Robertson of Stanford University who spoke on "Lateral Stability of Narrow Rectangular Prestressed Concrete Beams"; Frederick Willsea, Stanford, "Natural Modes of Vibration of a Four-Story Building"; Leon D. Luck, Stanford, "Rigid Frame Analysis by Matrix Methods with the Aid of a Digital Computor." Representing the University of California were Edward White who spoke on "Analysis of Plane Stress Problems by Means of the Moire French Method"; Dan Sunada spoke on "Self Stress Prestressing of Concrete by the Use of Expansive-Cement Admixtures"; and Russell McFarland's subject was, "Effect of Searling Force on the Ultimate Moment Capacity of Beams."

Students representing San Jose State included Buel Morgason speaking on "Lateral Pressures Against Retaining Walls Due to Surcharge Loadings."

Announcement was made that the Annual SEANC Picnic would be held on July 17-18 at the Sonoma Mission Inn, Sonoma county.

Recent new members include Richard C. Gerke, Affiliate.

APCO

ARCHITECTURAL PORCELAIN ENAMEL

- "Self-Flashing"® Veneer Panels
- Sign Letters
- Duowal Curtain Wall Panels
- Mirawal Veneer Facing
- Sun Louvers
- Mirawal Sandwich Panels

Only porcelain enamel can do so much for so little.

Glaus PORCELAIN ENAMEL

APCO ARCHITECTURAL PORCELAIN CONSTRUCTORS

2827 UNION STREET
OAKLAND 8 CALIFORNIA
TWINOAKS 3-9225

HAROLD A. MOSHER ELECTED PRESIDENT OF ENGINEERS

Harold A. Mosher, assistant director of engineering for the Eastman Kodak Company, has been elected president of the National Society of Professional Engineers, and will be installed at the Society's annual banquet in New York City this month. He succeeds Dr. Clark A. Dunn, executive director of the Office of Engineering Research and a professor of civil engineering at the College of Engineering, Oklahoma State University.

WILLIAM F. RYAN AWARDED HIGH ENGINEERING HONOR

The 1959 National Society of Professional Engineers' award for outstanding service to the engineering profession will be presented to William F. Ryan, former vice president of Stone & Webster Engineering Corporation, at the Silver Anniversary meeting of the Society in New York City this month.

The ninth individual to receive the Award since it was first made in 1949, Ryan joins with Herbert Hoover, David B. Steinmen, Charles F. Kettering, Donald A. Quarles, and Granville M. Read as recipients of the Award.

The Award cited Ryan for his "outstanding contri-

American Society of Civil Engineers
Los Angeles Section
George E. Brandow, President; Ernest Maag, Vice-President; L. LeRoy Crandall, Vice-President; J. E. McKee, Secretary; Alfred E. Waters, Treasurer. Office of Secy., California Institute of Technology, Pasadena, Calif.
Secy.-Treas.: 4865 Park Ave., Riverside. Ventura-Santa Barbara Counties Branch, Robert L. Ryan, Pres.; Richard E. Burnett, Vice-President; George Conahey, Secy.-Treas., 649 Doris St., Oxnard.
American Society of Civil Engineers
San Francisco Section
Wm. W. Moore, President; Harmer E. Davis, 1st Vice-President; John A. Blume, 2nd Vice-President; B. A. Vallerga, Secretary; Ben C. Gerwick, Jr., Treasurer. Office of the Sec. (Mrs. Ola H. Dewell, Mgr.) Room 302, Atlas Bldg., 604 Mission St., San Francisco 5.
San Jose Branch
Stanley J. Kocal, President; Charles L. Coburn, Vice-President; Myron M. Jacobs, Secty. and Treas.
Structural Engineers Association
of Oregon
Charles H. Woodworth, President; Arthur M. James, Vice-President; Cyril Burgstahler, Secy-Treas. Directors, James G. Pierson, George A. Guins, Robert M. Bonney, Albert P. Jensen, Jr. Office of Secy 717 Bd. of Trade Bldg, 310 S.W. 4th Ave. Portland 4, Oregon.
Society of American Military Engineers
Puget Sound Engineering Council (Washington)
R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer; Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.
American Society Testing Materials
Northern California District
R. W. Harrington, Chairman; G. L. Grieve, Vice-Chairman; R. C. Vollmer, Secretary. Office of Secty., 988 Creston Road, Berkeley 8, Calif.
American Society for Metals
Los Angeles Chapter: John E. Wilson, Chairman; Stuart K. Oliver, Vice-Chairman; H. A. Curwin, Secretary; W. V. Wood, Treasurer; K. L. Clark, Asst. Secretary. Office Secy., Earle M. Jorgensen Co.
Society of American Military
Engineers—San Francisco Post
Col. Edwin M. Eads, USAF, President; C. R. Graff, 1st Vice-President; Col. Seymore A. Potter, Jr., 2nd Vice-President; Roger L. Cairns, Secretary; Donald C. Bentley, Treasurer. Directors—Col. John S. Hartnett, USA; Donald McCall; Capt. A. P. Gardiner, USN; C. Grant Austin, and Rex A. Daddisman. Office Secy. USAF, U.S. Appraisers Bldg, 630 Sansome St., San Francisco.

butions as a professional engineer in the field of mechanical design, for his unselfish devotion to professional principles and ideals, and, more importantly, his untiring efforts in the practical implementation of these concepts for the benefit of the profession and mankind."

ENGINEERS MOVE: Fred E. Potts Company and Fepco Engineering Construction, recently moved their offices to 259 South Beverly Drive, Beverly Hills, California.

WALLS OF CLEANLINESS--
KRAFTILE GLAZED STRUCTURAL UNITS
Easy To Clean — Low Maintenance — Wear Forever

1 FOR Shower Rooms, Dressing Rooms, Wash Rooms — in schools, factories, institutions. Not affected by steam, chemicals, stains or odors.

2 FOR Surgeries, Laboratories, First Aid Rooms, Veterinary Hospitals. Fire resistant, vermin proof. Won't chip, crack or fade.

3 FOR Food Processing Plants, Kitchens, Lunchrooms, Dairies — or wherever low cost maintenance, high sanitation standards and permanent, economical construction are indicated. Never needs patching or painting.

Complete wall and finish combined. Modular 6" x 12" face size for easy, low-cost installation by masons alone. Wall thicknesses, 2", 4" and 6". Kraftile quality control assures uniformity in color, size, shape and structural strength. Available in clear and 12 lifelong ceramic color glazes.
Ask for free Fact Sheets, specifications, Graphic Standards Manual.

KRAFTILE COMPANY
NILES, CALIFORNIA
MADE IN THE WEST . . . FOR WESTERN CONSTRUCTION

Simpson
PLANKED GOLDEN HEMLOCK ROOF DECK
combines insulation, structural strength and interior beauty in ONE application!

Created for popular exposed beam construction—sturdy roof deck panels made of 1/4" select Western Hemlock Plywood laminated to four layers of 1/2" asphalt-impregnated insulating boards. Panels span 48". Prefinished surface is V-grooved for decorative planked effect. Size: 23" x 96" x 2 1/4". Check Sweet's Architectural File for full details.

Distributed by
PACIFIC CEMENT & AGGREGATES, INC.
Contact the nearest PCA Sales Office
San Francisco Oakland San Jose
Sacramento Stockton Fresno
General Offices: 400 Alabama St., San Francisco, KLondike 2-1616

BARRETT CONSTRUCTION

(From Page 25)

Mertz, and engineers Charles Miner, Frank Kelly, Jack Daly and Joseph Goldman. Each man is fully capable of putting together a figure on the largest types of construction now being built in the West.

Details of complicated customer financing and property acquisition problems are handled by Controller Fred Eyrond and his skilled staff. Audit, cost, and administrative controls of work in progress follow modern, tested and detailed procedures so that negotiated contracts can be confidently executed.

When it comes to developing production short cuts, and cost-saving techniques, both John and Richard Barrett put their heads together with General Superintendent George McKeever. In the State office building they have gained acceptance for new systems of column and deck forming.

Shortly after St. Joseph's hospital, Eureka, was completed some three years ago, a record-breaking earthquake struck the city. The new four-story building had been erected with pre-cast wall sections, an entirely novel and pioneer method. The hospital was one of the few buildings in Eureka to come through the temblor unscathed.

Barrett Construction Company's central office is consolidated with its equipment and storage yard at 1800 Evans Avenue, San Francisco.

Working in the yard under Robert O'Brien, is the super senior, the unchallengeable fifty-year carpenter for Barrett, Frank Ronicke.

The concentration of executives and job servicing at one location has proved highly efficient.

Any outsider would feel confidence in the Barrett organization if, for no other reason, he had an opportunity to see the "team" work together, bidding a job or building a job; or play together when they go as a group to watch the San Francisco Giants or get on a big Barrett bus for a weekend in the Barrett lodge at Squaw Valley.

CALIFORNIA BUILDERS
[CBH]
HARDWARE COMPANY

MAIN OFFICE AND WAREHOUSE
17 BLUXOME ST. • SAN FRANCISCO 7, CALIF.
YUkon 2-5690

BRANCH OFFICE AND STORE
2563 SAN PABLO AVE • OAKLAND 12, CALIF.
TWinoaks 3-7732

RESILIENT FLOOR COVERING
METAL WALL TILE
REFRIGERATION

We have supplied these materials on many of the projects of the Barrett Construction Company.

PETERSON-COBBY CO.

Contractors

218 CLARA STREET SAN FRANCISCO
EXbrook 2-8714
Sacramento Palo Alto

We enjoy working with
BARRETT CONSTRUCTION CO.
on many of their outstanding projects.

NATIONAL IRON WORKS
Foot of Everett Street, Alameda
Phone: LAkehurst 3-7300

McGRATH STEEL CO.
6655 HOLLIS STREET, EMERYVILLE
has furnished and erected
REINFORCING STEEL
on the following buildings:
AIRLINES BUS TERMINAL
U.S.F. GYMNASIUM
ST. FRANCIS HOSPITAL
For Barrett Construction Co.

NEWSPAPER EDITOR ELECTED PRESIDENT, U.S. CHAMBER COMMERCE

Erwin D. Canham, editor of the Christian Science Monitor, has been elected 2nd president of the Chamber of Commerce of the United States, and is the first newspaperman to hold this position.

Canham is one of the nation's leading writers and public speakers and has been a first-hand observer at many of the conferences and events which have shaped recent history.

NEW SHOPPING CENTER IS BEING PLANNED FOR RED BLUFF

The Mayer Motels, Inc., of Red Bluff have purchased a four-acre site adjoining the Crystal Motel in Red Bluff and will soon start construction of a 25-store Supermarket and professional building. Also included in the project is parking area, paved, which will provide for 350 cars.

Construction will be by L. T. Anderson of Red Bluff. Estimated cost is $500,000.

AMERICAN COUNCIL OF INDEPENDENT LABS. TO MEET IN SAN FRANCISCO

The American Council of Independent Laboratories, Inc., will hold its annual 1959 meeting in San Francisco, October 6-9, according to a recent announcement.

Herbert Imrie, president of Abbot A. Hanks, Inc., San Francisco, will serve as chairman of the local host committee. Cecil Shilstone, Shilstone Testing Laboratory, New Orleans, La., and president of the ACIL, will preside.

PASO ROBLES HOT SPRINGS HOTEL REMODELING

The famed Paso Robles Hot Springs Hotel and Hot Springs, famed for many years and once headquarters for one of the major league spring baseball training sites, has announced extensive plans for remodeling of the property.

The exterior and interior of the present building will be remodeled; three dining rooms will be converted into one major facility; restoration of the mineral baths, and construction of a trailer park to accommodate 100 trailers, are included in the project.

PLASTICS ENGINEERS SCHEDULE FALL MEETING

"Plastics in Packaging" is the theme of a technical conference planned for November 19, 1959, by the Golden Gate Section of the Society of Plastics Engineers, Inc.

The one-day conference will bring together hundreds of experts in both the plastics and packaging fields.

General chairman of the event is Frank D. Allen, L. H. Butcher Company, San Francisco. Allen said the program, now being organized, will feature papers by top men in their fields and demonstrations representing the newest developments of plastic in packaging.

Other members of the committee include J. W. Richardson, Rohm & Haas, San Francisco; Robert H. Hughes, Industrial Plastics and Chemicals, Oakland; L. G. Maclise, Dow Chemical Company; Robert Wnukowski, Wnukowski Tool; John Joyce, Western Plastics Magazine; Robert Elliott, Owens-Corning Fiberglas Co.; and James C. Smith, Reichhold Chemicals, Inc., all of San Francisco.

NEW CIVIC CENTER PLANS ARE APPROVED

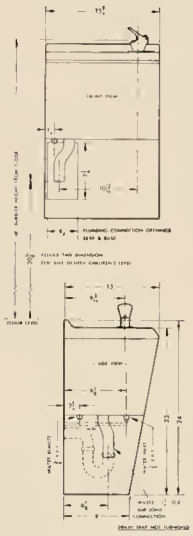
Architect Kingsford Jones, 615 Menlo Avenue, Menlo Park, has completed preliminary plans for construction of a new Civic Center for the City of Menlo Park.

The project will include a new city hall, administration offices, city council chambers, police station and facilities, National Guard and Naval Reserve facilities, multi-purpose building, library expansion, an auditorium with a seating capacity of 1000 persons, a youth center, and facilities for the city's Chamber of Commerce offices.

SCHLAGE LOCK BUYS LOS ANGELES HARDWARE FIRM

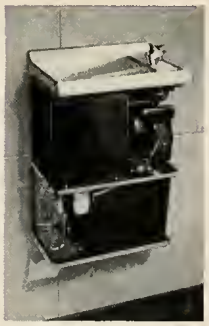
Marron Kendrick, president of the Schlage Lock Company of San Francisco, recently announced the purchase of the Peabody Company, Inc., of Los Angeles, manufacturers of custom-made miscellaneous hardware and ornamental lock trim.

The Peabody firm will continue operations from its plant in Los Angeles, as a subsidiary of the Schlage Lock Company. Charles H. Maxey, vice president of Peabody, and its operational manager since 1948, will continue in that capacity.



Haws Model HWT-13

CLEAN *from every angle...*



HAWS brilliant new wall mounted electric water coolers are a *clean break* with tradition! Compact design hugs the wall – leaving floor area clear! Crisp, *clean styling* is crowned by gleaming stainless steel – with plumbing and electrical unit completely enclosed. HAWS "clears the deck" for uncluttered maintenance ease and shining *clean floors*. This innovation in water cooler concept and design scores a *clean sweep* for HAWS – leader in the field since 1909! Find out about HAWS' complete line of drinking facilities. See HAWS Catalog in Sweet's Architectural File or write for your copy today.

HAWS 50

HAWS DRINKING FAUCET CO.
1441 Fourth Street
Berkeley 10, California

WRITE FOR DATA ON HAWS CAFETERIA AND RESTAURANT WATER COOLERS

AIA HONOR AWARDS

(From Page 24)

Detroit, Michigan, were among the five projects selected to receive First Honor Awards in The American Institute of Architects' 1959 competition for outstanding architecture. Eero Saarinen & Associates, Birmingham, Michigan, designed Concordia, and Minoru Yamasaki & Associates, also of Birmingham, served as architects for the McGregor Memorial Community Conference Center at Wayne State University.

Other top awards were given for the Washington Water Power Company's Central Service Facility, Spokane, Washington, designed by Spokane architects Kenneth W. Brooks and Bruce W. Walker; May-D & F Department Store in the Zeckendorf Plaza Development, Denver, Colorado, by I. M. Pei & Associates, New York, with Ketchum & Sharp, New York, Associate Architects; and the Diaz-Simon Pediatric Clinic, New Orleans, Colbert & Lowrey & Associates, Architects.

Professor Walter Godner of Harvard University's Graduate School of Design was chairman of the all-architect jury. Serving with him were Walter Gordon, Dean of Architecture at the University of Oregon; Albert S. Goleman, Houston; Vincent G. Kling, Philadelphia; and Harry Weese, Chicago.

Certificates will be presented to the architects and owners of all buildings receiving awards. In addition, a plaque will be presented for installation in the buildings receiving a First Honor Award. Presentations will be made during the AIA's annual convention which will be held in New Orleans, Louisiana, from June 22-26.

The Honor Awards program was established by the AIA in 1949 to encourage the appreciation of excellence in architecture and to afford recognition of exceptional merit in recently completed buildings.

PHOTO CREDITS: Bethlehem Pacific Steel Co., Pages 6, 7, 8, 9; Haas & Associates, Pages 10, 12, 14, 15, 16, 17, 19, 20, 21, 22, 23; Hertzka & Knowles, Page 11; Moulin Studio, Page 13; Aero Portraits, Page 18.

Our congratulations for your many fine building projects over the years

RUSSELL HINTON CO.

Painting — Decorating

Since 1895

1215 Fell St. San Francisco

Phone: HE 1-2346

MAKE YOUR OWN WHITEPRINTS!

- *Speeds up to 4½'/minute*
- *Finger-tip external speed control*
- *Guaranteed for a full year*
- *Makes sepia reproducibles*

PRINTS TAKE ONLY SECONDS ... COST ONLY PENNIES

So convenient; saves your valuable time! Copies full 42" material in any length — no warmup time required! Sharp, "big machine" quality prints develop quickly in see-thru tube ... you see when they're ready!

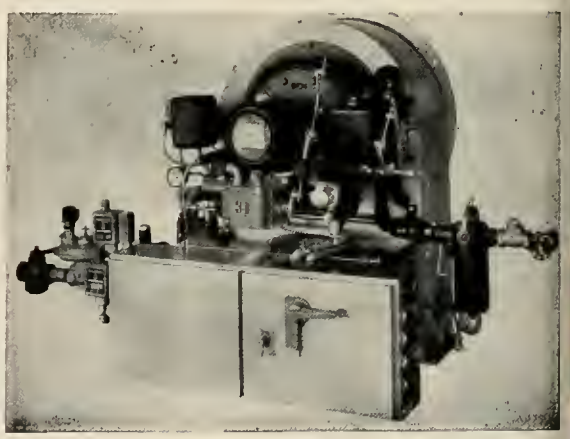
Pays for itself in a few short months ... ask your dealer for proof!

Write for literature and a demonstration!

UL APPROVED

REPRODUCTION ENGINEERING CORPORATION • ESSEX, CONN.

BLU-RAY



JOHNSON Forced Draft BURNERS

For firing with Oil only ... Gas only ... or Combination Oil or Gas. Wired, tested and completely assembled at the factory ready for easy, inexpensive attachment to any boiler or heat receiver. They provide smoother, more efficient combustion regardless of stack conditions and firebox pressure variations. Powered by the famous Johnson Mod. 53 Burners, these "packaged" units are available for any heating need, in sizes from 28HP to 560HP.

Johnson Oil Burners

S. T. JOHNSON CO.

940 ARLINGTON AVE. CHURCH ROAD
OAKLAND 8, CALIF. BRIDGEPORT, PA.

BOOK REVIEWS
PAMPHLETS AND CATALOGUES

REINFORCED CONCRETE FUNDAMENTALS — With Emphasis on Ultimate Strength. By Phil M. Ferguson. John Wiley & Sons, Inc., 440 4th Ave., New York 16, N. Y. Illus. 604 pp.

An up-to-date introduction to the fundamentals of reinforced concrete, including pertinent information on the physical behavior of reinforced concrete members. Emphasis is on the new ultimate strength concept and the manner in which beams and members fail under overload. Also included in the book are enough details of ultimate strength design for practical use, complete information on the American Concrete Institute Building Code requirements, and a comparison between ultimate strength and working stress analysis.

Special features of the book include: Reinforced concrete design as a developing and changing process; Thorough treatment of slabs; Demonstrates research basis for reinforced concrete theory; Working stress methods in complete detail; and emphasizes the development or anchorage length as well as moment in its detailed coverage of bend points for steel.

HOW TO DESIGN POLE-TYPE BUILDINGS. By Donald Patterson, SE. American Wood Preservers Institute, 111 W. Washington St., Chicago 2, Ill. Illus. 73 pp. Price $1.50.

Second edition issued to meet steadily growing demand and new uses being found for low-cost pole structures by commerce and industry, and on farms. Text, tables and illustrations have been added to prior publications. A timely manual for those who plan, design, or contract to erect pole-type buildings. Illustrations and text show how to compute live, dead, wind loads, and stresses for every structural member of a proposed pole-type building.

THE SELECTION OF RETAIL LOCATIONS. By Richard L. Nelson, F. W. Dodge Corpn., 119 W. 40th St., New York 18. Illus. 422 pp. Price $9.00.

A comprehensive book offering the first authoritative study of site selection and business volume estimating for establishments selling consumer goods or services. Right location is of prime importance to any business that requires the consumers' presence on the premises.

The contents are arranged into five sections: Influence of Location on Retailing, covering the growth of cities; The Selection of a Location, general information on importance of location today; Technique of Estimating Business Volume, outlines various techniques for estimating business volume; What About Shopping Centers?, a detailed analysis of shopping center types, design, parking requirements, leasing, financing and management; and New Trends in the Economics of Location covering trends in financing and leasing for individual stores. Numerous charts, graphs, plans and drawings for reference and specific problems.

LOOKING AT ARCHITECTURE IN CANADA. By Alan Gowans. Oxford University Press, 417 5th Ave., New York 16. Illus. 232 pp. Price $10.00.

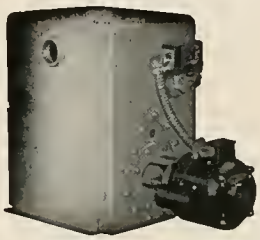
A superb volume of many things. It is an illuminating panorama of Canadian architecture written with a masterly blend of urbane wit and scholarly thoroughness for both the expert and the novice. It is a delightful introduction to Canadian architecture in particular and to the principles of architecture in general; at the same time it provides students with the most complete treatment of the subject, in pictures and text; and it is a distinguished picture-book of Canadian buildings, magnificent and mean, primitive and progresive, in brief it is unique.

NEW CATALOGUES AVAILABLE

Architects, Engineers, Contractors, Planning Commission members—the catalogues, folders, new building products material, etc., described below may be obtained by directing your request to the name and address given in each item.

Modern swimming pool equipment, supplies, chemicals, New 48-page catalog in color (AIA File No. 35-F-T) gives pool owners, operators, builders, contractors, architects and engineers complete data on residential and commercial swimming pools, pool equipment and swimming pool chemicals; many illustrations, charts, specifications and other information which will make selection of a swimming pool and equipment easier. Free copy write DEPT-A&E, Modern

HAAS and HAYNIE
Formerly Haas Construction Company
Since 1898
275 PINE ST.
SAN FRANCISCO, CALIF.
Phone DOuglas 2-0678

"AMERICAN-MARSH"

CONDENSATION UNIT
Durable — Economical
Stocked Locally
Please contact us for information on All Pumping Problems.
— CALL —
SIMONDS MACHINERY CO.
DOUGLAS 2-6794
816 Folsom St. San Francisco
SIMONDS FOR PUMPS

JUDSON PACIFIC-MURPHY CORP.
Steel Fabricators and Erectors
REINFORCING STEEL
STRUCTURAL STEEL
BRIDGE CRANES
4300 EASTSHORE HWY. EMERYVILLE, CALIF.
Phone: OL 3-1717

Western Distributors Herring-Hall Marvin Safe Company Hamilton, O.
DESIGNERS • MANUFACTURERS
SAFES • VAULTS • MONEY CHESTS
FEDERAL BURGLAR ALARMS
THE HERMANN SAFE CO.
1699 Market St., San Francisco 3, Calif. Tel.: UNderhill 1-6644

PACIFIC MANUFACTURING CO.

High Class Interior Finish Quality Millwork

16 Beale St., San Francisco
GArfield 1-7755

2115 "J" Street — Sacramento
Gilbert 2-7633

3345 Leonis Blvd. — Los Angeles
LUdlow 5-1211

2610 The Alameda — Santa Clara
AXminster 6-2040

VERMONT MARBLE COMPANY

DOMESTIC AND IMPORTED MARBLES
GRANITE VENEER

VER-MYEN Serpentine for Laboratory Equipment

6000 THIRD STREET • SAN FRANCISCO 24, CALIF.
Phone: VAlencia 6-5024

3522 COUNCIL STREET • LOS ANGELES 4
Phone: DUnkirk 2-6339

FORDERER CORNICE WORKS

Manufacturers of

Hollow Metal Products • Interior Metal Trim
Elevator Fronts and Cabs
Metal Plaster Accessories • Sanitary Metal Base
Flat and Roll Metal Screens
Metal Cabinets • Commercial Refrigerators

269 POTRERO AVE.
SAN FRANCISCO, CALIF. HEMLOCK 1-4100

The Most Complete Line of
STEELS and STEEL BUILDING MATERIALS
Made by a Single Producer

REPUBLIC STEEL

See Sweet's Catalog File or write us for full information.

REPUBLIC STEEL CORPORATION
GENERAL OFFICES: CLEVELAND, OHIO

DENVER, COLORADO . . . . . 230 DENVER CLUB BUILDING
LOS ANGELES, CALIF. . . . GENERAL PETROLEUM BUILDING
SAN FRANCISCO, CALIFORNIA . . . . . RIALTO BUILDING
SEATTLE, WASH. . . . . WHITE-HENRY-STUART BUILDING

Swimming Pool Co., Inc., One Holland Ave., White Plains, New York.

Better air. New 16-page composite product bulletin contains description of American Air Filter's complete line of products; illustrates and describes air filtering, cooling, heating, cleaning, moving, exhausting, humidifying and dehumidifying; includes description of products, air conditioning units, coils, packaged liquid chillers, cooling towers, evaporation condensers. Available to architects, contractors, engineers by writing DEPT-A&E, American Air Filter Co., Inc., 215 Central Ave., Louisville 8, Ky.

Translucent fiberglass panels. A four-page folder (AIA File No. 26-A-9) for architects and engineers, contains up-to-date specifications on the new line of residential and industrial translucent fiberglass panels; itemizes light and heat transmission values for 30 different panels; insulation value, load strength, impact and chemical resistance and other characteristics are covered. Free copy write DEPT-A&E, Alsynite Company of America, 4654 De Soto St., San Diego 9, Calif.

Public address systems. New catalog fully describes, with illustrations and specifications new line of public address speakers and components; data includes hi-fi speakers and enclosures suitable for commercial installations. Free: write DEPT.-A&E, University Loudspeakers, Inc., 80 So. Kinsico Ave., White Plains, N. Y.

"New ideas in school construction with steel." New 16-page illustrated booklet shows strength, dimensional stability, color, inherent design form, speed of erection and low maintenance with accompanying economy of steel construction; framing, flooring, roofing and paneling applications are described and pictured, with actual Western elementary and secondary schools and colleges shown. Free copy, write DEPT-A&E, Columbia-Geneva Division, U. S. Steel Corp., 120 Montgomery St., San Francisco 6, Cal.

Pipe and vessel covering. New 12-page, illustrated brochure (AIA File No. 37-B) describes Styrofoam pipe and vessel covering applications for low temperature insulation; variety of engineering data, recommended application techniques and charts on thickness and heat gain. Free copy write DEPT-A&E, Dow Chemical Co., Midland, Mich.

Powder-actuated tools and fasteners. New handbook (AIA File 17-F) for architects and engineers on uses of powder-actuated tools and fasteners in construction; the 48-page loose leaf book was published following two years of study and research; provides information on subject in general, specific loads and other data. Free copy write DEPT-A&E, Olin Mathieson Chemical Corp'n, 460 Park Ave., New York 22.

Stains and finishes. New brochure (AIA File No. 25-B-12) describes nine new types of stains and finishes manufactured by the Olympic Stained Products Company; made from pure pigments ground in linseed oil and combined with phenylmercury-oleate wood preservative to assure long color life, plus wood preservation; actual color samples on wood of all stains and finishes described are available to architects, engineers, contractors, and builders by writing DEPT-A&E, Olympic Stained Products Company, 1118 Leary Way, Seattle 7, Washington.

COLORFUL TERRAZZO

on California State Building
San Francisco
by

TRAVERTITE CO.

400 North Canal Street
San Francisco — P. O. Box 669
Phone: JU 9-1811

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY LeROY CONSTRUCTION SERVICES. 4% SALES TAX ON ALL MATERIALS BUT NOT LABOR. ITEMS IN ITALIC INCLUDE LABOR AND SALES TAX.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor and Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK & MASONRY

COMMON BRICKWORK, Reinforced:		
8" walls	SF	*3.15*
12" walls	SF	*4.40*
SELECT COMMON, Reinforced:		
8" walls	SF	*3.25*
12" walls	SF	*4.50*
CONCRETE BLOCK, Reinforced:		
6" walls	SF	*1.60*
8" walls	SF	*1.75*
12" walls	SF	*2.15*
BRICK VENEER:		
4" Select Common	SF	*1.85*
4" Roman	SF	*2.75*
4" Norman	SF	*2.65*
4" Aggrelite	SF	*2.65*

BRICKWORK & MASONRY

All Prices—F.O.B. Plant.

COMMON BRICK		
Common 2½ x 3¾ x 8¼	M	48.00
Select 2½ x 3¾ x 8¼	M	55.00
Clinker 2½ x 3¾ x 8¼	M	55.00
Jumbo 3½ x 3 x 11½	M	79.00
FACE BRICK		
Standard	M	59.80 - 83.20
Jumbo	M	114.40 - 130.00
Roman	M	88.40 - 109.20
Normao	M	101.40 - 124.80
Brik Blox (6")	M	202.80
(8")	M	239.20
Braile Veneer	M	26.00
BUILDING TILE		
8 x 5½ x 12 inches	M	165.78
6 x 5½ x 12 inches	M	128.96
HOLLOW TILE		
12 x 12 x 3 inches	M	163.12
12 x 12 x 4 inches	M	184.18
12 x 12 x 6 inches	M	244.71
MANTEL FIRE BRICK		
2½ x 9½ x 4½ inches	M	140.40
GLAZED STRUCTURAL UNITS		
2 x 6 x 12 Furring	SF	1.00
4 x 6 x 12 Furring	SF	1.50
6 x 6 x 12 Furring	SF	2.05
4 x 6 x 12 Partition	SF	1.85
Add for color	SF	.25
CONCRETE BLOCKS		
4 x 8 x 16 inches	EA	.23
6 x 8 x 16 inches	EA	.28
8 x 8 x 16 inches	EA	.32
12 x 8 x 16 inches	EA	.48
Colored Add	EA	.02
AGGREGATE—Haydite or Basalite		
All sizes in bulk	CY	6.45

BUILDING PAPERS & FELTS

1 ply per 1000 ft. roll	4.20
2 ply per 1000 ft. roll	6.40
3 ply per 1000 ft. roll	8.75
Sisalkraft, reinf. 500 ft. roll	8.00
SHEATHING PAPERS:	
Asphalt sheathing, 15-lb. roll	2.55
30-lb. roll	3.58
Dampcourse, 216-ft. roll	3.07
FELT PAPERS:	
Deadening felt, ¾ lb., 50 ft. roll	4.12
Deadening felt, 1 lb., 50 ft. roll	4.80
Asphalt roofing, 15-lb.	2.58
30-lb.	3.58
ROOFING PAPERS:	
Standard Grade, Smooth Surface	
108 ft. roll, Light, 45 lb	2.37
Medium 55 lb.	2.76
Heavy 65 lb.	3.36
Mineral Surfaced	3.75

CHIMNEYS, PATENT

F.O.B. Warehouse

6"	LF	1.45
8"	LF	2.05
10"	LF	2.85
12"	LF	3.45

Rates for 10 - 50 Lin. Ft.

CONCRETE AGGREGATES

	Bunker Per Ton	Del'd Per Ton
Gravel, All Sizes	3.25	4.00
Top Sand	3.45	4.20
Concrete Mix	3.35	4.20
Crushed Rock		
¼" to ¾"	3.30	4.20
¾" to 1½"	3.30	4.20
Roofing Gravel	3.46	4.15
SAND		
Lapis (Nos. 1 & 2)	4.50	5.30
Olympia (Nos. 1 & 2)	3.60	4.15
CEMENT		
Common, All brands (Paper sacks)		
Small quantities,	Per Sack	1.45
Large quantities,	Per bbl.	4.54
Trinity White & Mendusa White	Per Sack	4.00
CONCRETE MIX		
6 sacks in 5-yd. loads	Per yard	15.65
CURING COMPOUND, Clear		
5 gal drums	Per Gal.	1.46

CARPENTRY & MILLWORK

Hardware not included

FRAMING:		
Floors	BM	*.22 - .27*
Walls	BM	*.28 - .32*
Ceilings	BM	*.22 - .27*
Roofs	BM	*.25 - .30*
Furring & Blocking	BM	*.30 - .50*
SHEATHING:		
1 x 8 straight	BM	*.20 - .25*
1 x 8 diagonal	BM	*.23 - .28*
5/16" Flyscore	SF	*.16 - .20*
⅜" Plywood	SF	*.25 - .30*
SIDING:		
1 x 8 Bevel	BM	*.35 - .40*
1 x 4 V-Rustic	BM	*.40 - .45*
EXTERIOR TRIM:		
Fascia and Molds	BM	*.40 - .50*
Bolted Framing—Add 50%		
ENTRANCE DOORS & FRAMES:		
Singles		*60.00 & Up*
Doubles		*100.00 & Up*
INTERIOR DOORS & FRAMES:		
Singles		*35.00 & Up*
Pocket Sliding		*45.00 & Up*
Closet Sliding (Pr.)		*50.00 & Up*
WINDOWS:		
D/H Sash & Frames	SF	*1.95 & Up*
Casement Sash & Frames	SF	*2.20 & Up*
SHELVING:		
1 x 12 S4S	BM	*.30 - .50*
¾" Plywood	SF	*.40 - .60*
STAIRS:		
Oak steps D.F. Risers		
Under 36" wide	Riser	*13.50*
Under 60" wide	Riser	*18.00*
Newel posts and rail extra		
WOOD CASES & CABINETS:		
D.F. Wall Hung	LF	*15.00 - 20.00*
D.F. Counters	LF	*18.00 - 25.00*

DAMPPROOFING & WATERPROOFING

MEMBRANE:		
1 layer 50 lb. felt	SQ.	*9.00*
4 layers Dampcourse	SQ.	*14.00*
Hot coat walls	SQ.	*8.00*
Tricosal added to concrete	CY	*1.00*
Anti-Hydro added to concrete	CY	*1.50*

ELECTRIC WIRING

Per Outlet:		
Knob & Tube	EA	*9.00*
Armor	EA	*16.00*
Conduit	EA	*20.00*
110 V Circuit	EA	*25.00*
220 V Circuit	EA	*95.00*

ELEVATORS & ESCALATORS

Prices vary according to capacity, speed and type. Consult Elevator Companies.

Slow speed apartment house elevator including doors and trim, about $5,500.00 per floor.

EXCAVATION

MACHINE WORK in common ground:		
Large Basements	CY	*.75 - 1.00*
Small Pits	CY	*1.25 - 1.75*
Trenches	CY	*1.50 - 2.25*
HAND WORK in common ground:		
Large pits and trenches	CY	*5.00 - 6.00*
Small pits and trimming	CY	*6.00 - 8.00*

Hard Clay & Shale 2 times above rates.
Rock and large boulders 4-6 times above rates.
Shoring, bracing and disposal of water not included.

FLOORS

⅛" Asp. tile, dark colors	SF	*.25 - .30*
⅛" Asp. tile, light colors	SF	*.30 - .35*
⅛" Rubber tile	SF	*.60 - .70*
.080 Vinyl Asbestos Tile	SF	*.40 - .45*
.080 Vinyl Tile	SF	*.85 - .95*
Lino, Standard Gauge	SY	*3.75 - 4.25*
Lino, Battleship	SY	*5.25 - 5.75*
4" Rubber Base, Black	LF	*.35 - .40*
Rubber Stair Treads	LF	*2.25 - 2.75*

Above rates based on quantities of 1000 - 5000 SF per job.

HARDWOOD FLOORS

Select Oak, filled, sanded, stained and varnished:		
5/16" x 2¼" strip	SF	*.47 - .52*
5/16" Random Plank	SF	*.52 - .57*
25/32" x 2¼" T&G	SF	*.80 - .90*
Maple, 2nd Grade and Better, filled, sanded, stained and varnished:		
25/32" x 2¼" T&G	SF	*.85 - .95*
Wax Finish, add	SF	*.10*

HARDWOOD FLOORING

Oak 5/16" x 2" Strip—		
Clear	M	240.00
Select	M	228.00
#1 Common	M	218.00
Oak 5/16" Random Plank—		
Select & Btr.	M	286.00
#1 Common	M	244.00
Oak 25/32" x 2¼" T&G—		
Select	M	260.00
#1 Common	M	225.00
Maple 25/32" x 2¼" T&G—		
#1 Grade	M	350.00
#2 Grade	M	225.00
#3 Grade	M	240.00
Nails—1" Floor Brads	KEG	17.20

GLASS & GLAZING

S.S.B. Clear	SF	*.52*
D.S.B. Clear	SF	*.75*
Crystal	SF	*1.05*
¼" Plate	SF	*2.25*
⅛" Obscure	SF	*.75*
⅛" Heat Absorbing	SF	*1.25*
¼" Tempered Plate	SF	*4.50*
½" Tempered Plate	SF	*8.00*
¼" Wire Plate, Clear	SF	*4.35*
¼" Wire Plate, Rough	SF	*1.40*

GLASS—CUT TO SIZE

F.O.B. Warehouse

S.S.B. Clear, Av. 4 SF	SF	.34
D.S.B. Clear, Av. 7 SF	SF	.48
Crystal, Av. 16 SF	SF	.56
¼" Polished Plate, Av. 50 SF	SF	1.45
⅛" Obscure, Av. 7 SF	SF	.54
⅛" Ribbed, Av. 7 SF	SF	.54
⅛" Rough, Av. 7 SF	SF	.54
¼" Wire Plate, Clear, Av. 40 SF	SF	2.85
¼" Wire Plate, Rough, Av. 40 SF	SF	.86
⅛" Heat Absorbing, Av. 7 SF	SF	.88
¼" Tempered Plate, Av. 40 SF	SF	3.60
½" Tempered Plate, Av. 40 SF	SF	6.50
Glazing—Approx. 40-50% of Glass		
Glass Blocks—		
6"		.57
8"		.92
12"		2.39

HEATING

FURNACES—Gas Fired—Av. Job:		
FLOOR FURNACE:		
25,000 BTU		*100.00 - 125.00*
35,000 BTU		*107.00 - 135.00*
45,000 BTU		*115.00 - 150.00*
AUTOMATIC CONTROL:		
Add		*25.00 - 35.00*

HEATING—Cont'd

DUAL WALL FURNACE:	
25,000 BTU	110.00 - 125.00
35,000 BTU	125.00 - 145.00
50,000 BTU	150.00 - 180.00
AUTOMATIC CONTROL:	
Add	25.00 - 35.00
GRAVITY FURNACE:	
75,000 BTU	375.00 - 450.00
85,000 BTU	425.00 - 525.00
95,000 BTU	475.00 - 600.00
FORCED AIR FURNACE:	
Add	75.00 - 125.00
AUTOMATIC CONTROL:	
Add	15.00 - 25.00
HEAT REGISTERS:	
Outlet	7.50 - 15.00

INSULATION & WALLBOARD

F.O.B. Warehouse

ROCKWOOL Insulation—		
2" Semi-thick	Per M SF	62.00
3⅝" Full Thick	Per M SF	80.00
COTTON Insulation		
1" Full Thick	Per M SF	45.00
SOFTBOARDS—Wood Fiber—		
½" thick	Per M SF	84.00
1½" thick	Per M SF	275.00
2" thick	Per M SF	385.00
ALUMINUM Insulation—		
35# Kraft paper with alum. foil		
1 side only	Per M SF	19.00
2 sides	Per M SF	34.00
GYPSUM Wallboard—		
⅜" thick	Per M SF	49.50
½" thick	Per M SF	54.50
⅝" thick	Per M SF	83.00
⅜" Gyplap	Per M SF	85.00
HARDBOARDS—Wood Fiber—		
⅛" thick, Sheathing	Per M SF	84.00
7/32" thick, Sheathing	Per M SF	90.48
¼" thick, Sheathing	Per M SF	109.20
⅛" thick, Tempered	Per M SF	108.00
7/32" thick, Tempered	Per M SF	186.00
¼" thick, Tempered	Per M SF	194.48
CEMENT Asbestos Board—		
⅛" C.A.B. Flat Sheets	Per M SF	160.00
7/32" C.A.B. Flat Sheets	Per M SF	208.80
¼" C.A.B. Flat Sheets	Per M SF	270.01

LATH & PLASTER

Diamond 3.40 copper bearing	SY	.51
Ribbed 3.40 copper bearing	SY	.56
⅜" rock lath	SY	.36
1½" Standard Channel	LF	.060
¾" Standard Channel	LF	.043
3¼" steel studs	LF	.093
4" steel studs	LF	.103
Stud shoes	EA	.025
Hardwall, Browning	Sack	1.50
Hardwall, Finish	Sack	1.75
Stucco	Sack	2.50

LATH & PLASTERWORK

CHANNEL FURRING:		
Suspended Ceilings	*SY*	*2.50 - 2.80*
Walls	*SY*	*2.60 - 2.90*
METAL STUD PARTITIONS:		
3¼" Studs	*SY*	*2.50 - 2.20*
4" Studs	*SY*	*2.70 - 3.10*
Over 10'0 high, add	*SY*	*.20 - .30*
3.40 METAL LATH AND PLASTER:		
Ceilings	*SY*	*3.90 - 4.40*
Walls	*SY*	*4.00 - 4.50*
KEENE'S CEMENT FINISH:		
Add	*SY*	*.40 - .60*
ROCK LATH & PLASTER:		
Ceilings	*SY*	*2.90 - 3.40*
Walls	*SY*	*3.00 - 3.50*
WIRE MESH AND ⅞" STUCCO:		
Walls	*SY*	*3.90 - 4.40*
STUCCO ON CONCRETE:		
Walls	*SY*	*2.80 - 3.20*
METAL ACCESSORIES	*LF*	*.20 - .50*

LINOLEUM

Lino. Standard Gauge	SY	2.65 - 2.85
Lino. Battleship	SY	2.95 - 3.11
⅛" Asp. tile, Dark	SF	.10 - .11
⅛" Asp. tile, Light	SF	.14 - .16
⅛" Rubber Tile	SF	.40 - .44
.080 Vinyl tile	SF	.20 - .21
.080 Vinyl Asb. tile	SF	.18 - .19
⅛" Vinyl tile	SF	.78 - .82
4" Base, Black	LF	.15 - .16
4" Base, Colored	LF	.26 - .20
Rubber Treads	LF	1.60 - 2.30
Lino Paste	GAL	.75 - .90

Above rates based on quantities of 1000-5000 SF per job.

LUMBER

	M.B.M.
DOUGLAS FIR:	
#1 2x4—2x10	102.00 - 106.00
#2 2x4—2x10	96.00 - 100.00
#3 2x4—2x10	75.00 - 80.00
#4 2x4—2x10	55.00 - 65.00
Clear, Air Dried	180.00 - 210.00
Clear, Kiln Dried	210.00 - 240.00
REDWOOD:	
Foundation Grade	120.00 - 130.00
Construction Heart	115.00 - 125.00
A Grade	180.00 - 210.00
Clear Heart	195.00 - 215.00

D.F. PLYWOOD	M.S.F.
¼" AB	118.00
¼" AD	105.00
¼" Ext. Waterproof	115.00
⅜" AB	140.00
⅜" AD	130.00
⅜" CD	90.00
½" AB	185.00
½" AD	175.00
½" CD	120.00
⅝" AB	215.00
⅝" AD	195.00
⅝" CD	135.00
¾" AB	240.00
¾" AD	220.00
¾" CD	165.00
⅝" Plyform	225.00

SHINGLES:	Square
Cedar #1	16.00 - 18.00
Cedar #2	14.00 - 16.00
SHAKES:	
CEDAR	
½ to ¾" Butt	18.00 - 20.00
¾ to 1¼" Butt	20.00 - 22.00
REDWOOD	
¾ to 1¼" Butt	21.00 - 24.00

MILLWORK

All Prices F.O.B. Mill

D.F. CLEAR, AIR DRIED:		
S4S	MBM	220.00 - 250.00
D.F. CLEAR, KILN DRIED:		
S4S	MBM	225.00 - 275.00
DOOR FRAMES & TRIM:		
Residential Entrance		17.00 & up
Interior Room Entrance		7.50 & up
DOORS:		
1⅜" D.F. Slab, Hollow Core		8.00 & up
1¾" D.F. Slab, Solid Core		19.00 & up
1⅜" Birch Slab, Hollow Core		10.00 & up
1¾" Birch Slab, Solid Core		22.00 & up
WINDOW FRAMES:		
D/H Singles	SF	.90
Casement Singles	SF	.90
WOOD SASH:		
D/H in pairs (1 lite)	SF	.55
Casement (1 lite)	SF	.65
WOOD CABINETS:		
¾" D.F. Ply with ¼" ply backs		
Wall Hung	LF	10.00 - 15.00
Counter	LF	12.00 - 17.00

BIRCH OR MAPLE—Add 25%

PAINT

All Prices F.O.B. Warehouse

Thinners—5-100 gals.	GAL.	.57
Turpentine—5-100 gals.	GAL.	1.58
Linseed Oil, Raw	GAL.	2.51
Linseed Oil, Boiled	GAL.	2.57
Primer-Sealer	GAL.	3.10
Enamel	GAL.	5.56
Enamel Undercoaters	GAL.	5.56
White Lead in Oil	LB.	.35
Red Lead in Oil	LB.	.35
Litharge	LB.	.30

PAINTING

EXTERIOR:		
Stucco Wash 1 ct.	*SY*	*.30*
Stucco Wash 2 cts.	*SY*	*.55*
Lead and Oil 2 cts.	*SY*	*.90*
Lead and Oil 3 cts.	*SY*	*1.30*
INTERIOR:		
Primer Sealer	*SY*	*.40*
Wall Paint, 1 ct.	*SY*	*.50*
Wall Paint, 2 cts.	*SY*	*.95*
Enamel, 1 ct.	*SY*	*.60*
Enamel, 2 cts.	*SY*	*1.10*
Doors and Trim	*EA*	*10.00*
Sash and Trim	*EA*	*12.00*
Base and Molds	*LF*	*.12*

Old Work—Add 15-30%

PLUMBING

Lavatories	*EA*	*150.00 - 200.00*
Toilets	*EA*	*200.00 - 300.00*
Bath Tubs	*EA*	*250.00 - 350.00*
Stall Shower	*EA*	*125.00 - 175.00*
Sinks	*EA*	*150.00 - 200.00*
Laundry Trays	*EA*	*100.00 - 150.00*
Water Heaters	*EA*	*100.00 - 300.00*

Prices based on average residential and commercial work. Special fixtures and excessive piping not included.

ROOFING

STANDARD TAR & GRAVEL	Per Square
4 ply	*14.00 - 18.00*
5 ply	*17.00 - 20.00*
White Gravel Finish—Add	*2.00 - 4.00*
Asph. Compo. Shingles	*16.00 - 20.00*
Cedar Shingles	*22.00 - 26.00*
Cedar Shakes	*28.00 - 32.00*
Redwood Shakes	*28.00 - 34.00*
Clay Tiles	*40.00 - 50.00*

SEWER PIPE

VITRIFIED:		
Standard 4 in.	LF	.31
Standard 6 in.	LF	.56
Standard 8 in.	LF	.81
Standard 12 in.	LF	1.76
Standard 24 in.	LF	6.95
CLAY DRAIN PIPE:		
Standard 6 in.	LF	.34
Standard 8 in.	LF	.59

Rate for 100 Lin. Ft. F.O.B. Warehouse

STEEL

REINFORCING BARS:		
¼" rounds	LB	.124
⅜" rounds	LB	.113
½" rounds	LB	.109
⅝" rounds	LB	.106
¾" rounds	LB	.104
⅞" rounds	LB	.104
1" rounds	LB	.104
REINFORCING MESH (1050 SF Rolls)		
6x6 x 10x10	SF	.035
6x6 x 6x6	SF	.067
16 GA. TYING WIRE	LB	.162

Rates 100-1000 Lbs. F.O.B. Warehouse

STRUCTURAL STEEL

$325.00 and up per ton erected when out of mill.
$350.00 and up per ton erected when out of stock.

SHEET METAL

ROOF FLASHINGS:		
18 ga. Galv. Steel	*SF*	*.60 - 1.00*
22 ga. Galv. Steel	*SF*	*.50 - .90*
26 ga. Galv. Steel	*SF*	*.40 - .80*
18 ga. Aluminum	*SF*	*1.00 - 1.50*
22 ga. Aluminum	*SF*	*.80 - 1.30*
26 ga. Aluminum	*SF*	*.60 - 1.10*
24 oz. Copper	*SF*	*1.90 - 2.40*
20 oz. Copper	*SF*	*1.70 - 2.20*
16 oz. Copper	*SF*	*1.50 - 2.00*
26 ga. Galv. Steel		
4" o.g. gutter	*LF*	*.90 - 1.30*
Mitres and Drops	*EA*	*2.00 - 4.00*
22 ga. Galv. Louvres	*SF*	*2.50 - 3.50*
20 oz. Copper Louvres	*SF*	*3.00 - 4.50*

TILE WORK

CERAMIC TILE, Stock colors:		
Floors	*SF*	*1.95 - 2.45*
Walls	*SF*	*2.05 - 2.55*
Coved Base	*LF*	*1.05 - 1.45*
QUARRY TILE:		
6" x 6" x ½" Floors	*SF*	*1.60 - 2.00*
9" x 9" x ¾" Floors	*SF*	*1.75 - 2.15*
Treads and risers	*LF*	*3.00 - 4.50*
Coved Base	*LF*	*.90 - 1.30*

Mosaic Tile — Rates vary with design and colors. Each job should be priced from Manufacturer.

TERRAZZO & MARBLE

Terrazzo Floors	*SF*	*2.00 - 2.50*
Cond. Terr. Floors	*SF*	*2.20 - 2.75*
Precast treads and risers	*LF*	*3.50 - 4.50*
Precast landing slabs	*SF*	*3.00 - 4.00*

TILE

CERAMIC:

F.O.B. Warehouse

4¼" x 4¼" glazed	SF	.69
4¼" x 4¼" hard glazed	SF	.72
Random unglazed	SF	.73
6" x 2" cap	EA	.17
6" coved base	EA	.29
¼" round bead	LF	.18
QUARRY:		
6 x 6 x ½" Red	SF	.49
6 x 6 x ¾" Red	SF	.52
9 x 9 x ¾" Red	SF	.60
6 x 6" coved base	EA	.21
White Cement Grout	Per 100 Lbs.	6.25

VENETIAN BLINDS

Residential	SF	.45 & Up
Commercial	SF	.55 & Up

WINDOWS

STEEL SASH:		
Under 10 SF	SF	2.50 & Up
Under 15 SF	SF	2.00 & Up
Under 20 SF	SF	1.50 & Up
Under 30 SF	SF	1.00 & Up
ALUMINUM SASH:		
Under 10 SF	SF	2.75 & Up
Under 15 SF	SF	2.25 & Up
Under 20 SF	SF	1.75 & Up
Under 30 SF	SF	1.25 & Up

Above rates are for standard sections and stock sizes F.O.B. Warehouse

CONSTRUCTION INDUSTRY WAGE RATES

Table 1. The rates are the union hourly wage rates established by collective bargaining as of April 1, 1959, as reported by reliable sources.

TABLE 1—UNION HOURLY WAGE RATES, CONSTRUCTION INDUSTRY, CALIFORNIA

Following are the hourly rates of compensation established by collective bargaining, reported as of January 2, 1959 or later

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKER	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85	$3.85
BOILERMAKER	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675	3.675
BRICKLAYER	3.95	3.75	3.75	3.75	3.80	3.75	3.875	3.95	3.80	3.90	3.75	3.80	3.85
BRICKLAYER HODCARRIER	3.15	3.15	3.15	2.90	3.10	2.90	3.00	3.10	2.75	2.75	2.75	2.75	2.75
CARPENTER	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
CEMENT MASON	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.40	3.475	3.475	3.40	3.40
ELECTRICIAN	4.061	4.061	4.061	3.75	4.06	3.75	4.16	3.666[A]	3.90	3.90	4.10	3.90	3.70
PLASTERER	3.215	3.215	3.215	3.215	3.215	3.215	3.24	3.215	3.135	3.135	3.135	3.135	3.135
IRON WORKER													
ORNAMENTAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
REINFORCING	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
STRUCTURAL	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
LABORER, GENERAL OR CONSTRUCTION	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.685	2.68	2.66	2.68	2.68
LATHER	3.437½	3.84	3.84	3.45	3.60[B]	3.40[C]	3.60[D]	3.50[E]	3.937½		3.725	3.625[F]	
OPERATING ENGINEER													
Concrete mixer (up to 1 yard)	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Concrete mixer operator—Skip Type	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.17	3.17	3.17	3.17	3.17
Elevator Hoist Operator									3.19	3.19	3.19	3.19	3.19
Material Hoist (1 drum)	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19					
Tractor Operator	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.71	3.71	3.71	3.71	3.71
PAINTER													
Brush	3.20	3.25	3.35	3.33	3.50	3.325	3.35	3.20	3.36	3.25	3.39	3.25	3.10
Spray	3.20	3.60	3.60	3.58	3.75	3.475	3.60	3.20	3.61	3.50	3.94	3.80	3.35
PILEDRIVERMAN	3.505	3.455	3.505	3.505	3.85	3.505	3.505	3.505	3.505	3.505	3.505	3.505	3.505
PLASTERER	3.69	3.545	3.545	3.35	3.60[B]	3.55[C]	3.58	3.50	4.00	4.00	3.725	3.9375	
PLASTERER HODCARRIER	3.25	3.42	3.42	3.10	3.10	3.00[C]	3.20	3.15	3.6875	3.5625	3.475	3.50	3.6875
PLUMBER	3.67		3.93½[I]	4.05	3.925	3.80[J]	3.85	3.80	3.90	3.80	3.80	3.80	3.80
ROOFER	3.35	3.35	3.35	3.20	3.25	3.35	3.60	3.10[K]	3.35	3.25	3.10	3.30	3.775
SHEET METAL WORKER	3.675	3.675	3.675	3.675	3.675	3.685	3.675	3.685	3.70	3.70	3.65	3.45	3.10
STEAMFITTER	3.67	3.96	3.96	3.80[J]	3.70	3.80[J]	3.60	3.675	3.80	3.80	3.80	3.80	3.775
TRUCK DRIVER—Dump Trucks under 4 yards	2.89	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.93	2.93	2.93	2.93	2.93
TILE SETTER	3.30	3.30	3.30	3.30	3.30	3.30	3.50	3.30	3.70	3.60	3.60	3.60	

A Includes 4% vacation allowance.
B Includes 5c hour for industry promotion and 5c hour for vacation fund
C ½% withheld for industry promotion.
D 1½c withheld for industry promotion.
E Includes 5c hour for industry promotion and 5c hour for vacation fund. Hourly rate for part of county adjacent to Sacramento County is $3.60.
F Northern part of county: $3.75.
I Includes 30c hour for vacation pay.
J Includes 15c hour which local union may elect to use for vacation purposes.
K Includes 10c hour for vacation fund.
L Includes 10c hour savings fund wage.

CONSTRUCTION INDUSTRY WAGE RATES — TABLE 2

Employer Contributions to Health and Welfare, Pension, Vacation and Other Funds
California Union Contracts, Construction Industry

(Revised March, 1957)

CRAFT	San Francisco	Fresno	Sacramento	San Joaquin	Santa Clara	Los Angeles	San Bernardino	San Diego
ASBESTOS WORKER	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W .11 hr. V	.10 W	.10 W	.10 W
BRICKLAYER	.15 W .14 P .05 hr. V		.15 W .10 P		.15 W			
BRICKLAYER HODCARRIER	.10 W .10 P .10 V	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
CARPENTER	.10 W .10 hr. V	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
CEMENT MASON	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
ELECTRICAL WORKER	.10 W 1% P 4% V	.10 W 1% P 4% V	.075 W 1% P	.075 W 1% P 4% V	1% P	1% P	1% P	.10 W 1% P
GLAZIER	.075 W .085 V	.075 W 40 hr. V	.075 W .05 V	.075 W .05 V	.075 W .085 V	.075 W 40 hr. V	.075 W 40 hr. V	.075 W 10 hr. V
IRONWORKER: REINFORCING	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
STRUCTURAL	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
LABORER, GENERAL	.10 W	.10 W	.10 W	.10 W	.10 W	.075 W	.075 W	.075 W
LATHER	.60 day W .70 day V		.10 W	.10 W	.075 W .05 V	.90 day W	.70 day W	.10 W
OPERATING ENGINEER								
TRACTOR OPERATOR (MIN.)	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
POWER SHOVEL OP. (MIN.)	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W	.10 W
PAINTER, BRUSH	.095 W	.08 W	.075 W	.10 W	.095 W .07 V	.085 W	.08 W	.09 W
PLASTERER	.10 W .10 V	.10 W	.10 W	.10 W	.10 W .15 V	.10 W	.90 day W	.10 W
PLUMBER	.10 W .10 V	.15 W .10 P	.10 W .10 P .125 V	.10 W	.10 W .10 P .125 V	.10 W	.90 day W	.10 W
ROOFER	.10 W .10 V	.10 W	.10 W .10 V	.10 W	.075 W .10 V	.085 W	.10 W	.075 W
SHEET METAL WORKER	.075 W 4% V	.075 W 7 day V	.075 W .10 V	.075 W .12 V	.075 W 4% V	.085 W .10 V	.085 W .10 V	.085 W 5 day V
TILE SETTER	.075 W .09 V				.075 W .09 V	.025 W .06 V		

ATTENTION: **The above tabulation has been prepared and compiled from the available data reported by building trades councils, union locals, contractor organizations and other reliable sources. The table was prepared from incomplete data; where no employer contributions are specified, it does not necessarily mean that none are required by the union contract.**

The type of supplement is indicated by the following symbols: W—Health and Welfare; P—Pensions; V—Vacations; A—Apprentice training fund; Adm—Administration fund; JIB—Joint Industry Board; Prom—Promotion fund.

CLASSIFIED ADVERTISING

RATE: 20c PER WORD . . . CASH WITH ORDER — MINIMUM $5.00

BUILDERS! You can make more money; get information you need before it is published elsewhere; Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

ARCHITECT WANTED—Free office space and weekly retainer fee. Opportunity for young, ambitious man capable of making complete working drawings. Box 540, ARCHITECT AND ENGINEER, 68 Post St., San Francisco.

WOOD CARVING, Furniture finishing and Design: Theodore H. Peterson, 10 California Ave., San Rafael. Phone GL 3-7325.

ARCHITECT AND PLANNER with twenty-five years' experience in U.S.A., Europe and Canada in all classes of work seeks connection in California. Own practice for nine years. Write Box 533, The Architect and Engineer Inc., 68 Post St., San Francisco.

ARCHITECTURAL AND STRUCTURAL DESIGNERS AND DRAFTSMEN NEEDED: Permanent employment, modern air conditioned office. Apply Kenny & Cullimore, 2 Niles Street, Bakersfield, California, phone FAirview 7-0256.

WRITING SERVICE — Letters, Applications, Resumes, Manuals. Editing. Ghost Writing. FILECO, 1456 Jones St., San Francisco. Tel. OR 3-6872.

INTERIOR DECORATION HOME STUDY—Announcing new home study course in Interior Decoration. For professional or personal use. Fine field for men and women. Practical basic training. Approved supervised method. Low tuition. Easy payments. Free Booklet. Chicago School of Interior Decoration, 835 Diversey Parkway, Dept. 9293, Chicago 14.

PERMANENT POSITION REQUIRED: Supervisor or foreman — Architectural Aluminum (Store Fronts) — Porcelain Enamel — Experienced ten years, Three years, Mechanical Engineering, three years Civil Engineering—Field Work. Write Box No. 534 THE ARCHITECT AND ENGINEER, INC., 68 Post St., San Francisco, Calif.

QUICK REFERENCE
ESTIMATOR'S DIRECTORY
Building and Construction Materials

ACOUSTICAL ENGINEERS
L. D. REEDER CO.
San Francisco: 1255 Sansome St., DO 2-5050
Sacramento: 3026 V St., GL 7-3505

AIR CONDITIONING
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
GILMORE AIR CONDITIONING SERVICE
San Francisco: 1617 Harrison St., UN 1-2000
KAEMPER & BARRETT
San Francisco: 233 Industrial St., JU 6-6200
LINFORD AIR & REFRIGERATION CO.
Oakland: 174-12th St., TW 3-6521
JAMES A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

ALUMINUM BLDG. PRODUCTS
MICHEL & PFEFFER IRON WORKS (Wrought Iron)
So. San Francisco: 212 Shaw Road, PLaza 5-8983
REYNOLDS METALS CO.
San Francisco: 3201 Third St., MI 7-2990
UNIVERSAL WINDOW CO.
Berkeley: 950 Parker St., TH 1-1600

ARCHITECTURAL PORCELAIN ENAMEL
CALIFORNIA METAL ENAMELING CO.
Los Angeles: 6904 E. Slauson, RA 3-6351
San Francisco: Continental Bldg. Products Co., 178 Fremont St.
Portland: Portland Wire & Iron Works, 4644 S.E. Seventeenth Ave.
Seattle: Foster-Bray Co., 2412 1st Ave. So.
Spokane: Bernhard Schafer, Inc., West 34, 2nd Ave.
Salt Lake City: S. A. Roberts & Co., 109 W. 2nd So.
Dallas: Offenhauser Co., 2201 Telephone Rd.
El Paso: Architectural Products Co., 506 E. Yandell Blvd.
Phoenix: Haskell-Thomas Co., 3808 No. Central
San Diego: Maloney Specialties, Inc., 823 W. Laurel St.
Boise: Intermountain Glass Co., 1417 Main St.

ARCHITECTURAL & AERIAL PHOTOGRAPHS
FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-0385

ARCHITECTURAL VENEER
Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle 99: 945 Elliott Ave., West, GA 0330
Spokane: 1102 N. Monroe St., BR 3259
KRAFTILE COMPANY
Niles, Calif., Niles 3611

Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601, Franklin Building
Pasadena 8: P. O. Box 186, East Pasadena Station

Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 24: 6000 3rd St., VA 6-5024
Los Angeles: 3522 Council St., DU 2-6339

BANKS - FINANCING
CROCKER-ANGLO NATIONAL BANK
San Francisco: 13 Offices

BLINDS
PARAMOUNT VENETIAN BLIND CO.
San Francisco: 5929 Mission St., JU 5-2436

BRASS PRODUCTS
GREENBERG'S, M. SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4:1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK
Face Brick
GLADDING McBEAN & CO.
San Francisco: Harrison at 9th, UN 1-7400
KRAFTILE CO.
Niles, Calif., Niles 3611
UNITED MATERIALS & RICHMOND BRICK CO.
Point Richmond, BE 4-5032

BRONZE PRODUCTS
GREENBERG'S M. SONS
San Francisco: 765 Folsom St., EX 2-3143
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Road, PLaza 5-8983
C. E. TOLAND & SON
Oakland: 2635 Peralta St., GL 1-2580

BUILDING HARDWARE
E. M. HUNDLEY HARDWARE CO.
San Francisco: 662 Mission St., YU 2-3322

BUILDING PAPERS & FELTS
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CABINETS & FIXTURES
CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316
THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513
MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815
PARAMOUNT BUILT IN FIXTURE CO.
Oakland: 962 Stanford Ave., OL 3-9911
ROYAL SHOWCASE CO.
San Francisco: 770 McAllister St., JO 7-0311

CEMENT
CALAVERAS CEMENT CO.
San Francisco: 315 Montgomery St.
DO 2-4224, Enterprise 1-2315
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616

CONCRETE AGGREGATES
Ready Mixed Concrete
PACIFIC CEMENT & AGGREGATES INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
RHODES-JAMIESON LTD.
Oakland: 333-23rd Ave., KE 3-5225

CONCRETE ACCESSORIES
Screed Materials
C. & H. SPECIALTIES CO.
Berkeley: 909 Camelia St., LA 4-5358

CONCRETE BLOCKS
BASALT ROCK CO.
Napa, Calif.

CONCRETE COLORS—HARDENERS
CONRAD SOVIG CO.
875 Bryant St., HE 1-1345

CONSTRUCTION SERVICES
LE ROY CONSTRUCTION SERVICES
San Francisco, 143 Third St., SU 1-8914

DECKS—ROOF
UNITED STATES GYPSUM CO.
2322 W. 3rd St., Los Angeles 54, Calif.
300 W. Adams St., Chicago 6, Ill.

DOORS
THE BILCO COMPANY
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Papavich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

Electric Doors
ROLY-DOOR SALES CO.
San Francisco, 5976 Mission St., PL 5-5089

Folding Doors
WALTER D. BATES & ASSOCIATES
San Francisco, 693 Mission St., GA 1-6971

Hardwood Doors
BELLWOOD CO. OF CALIF.
Orange, Calif., 533 W. Collins Ave.

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108

T. M. COBB CO.
Los Angeles & San Diego

HOGAN LUMBER CO.
Oakland: 700 - 6th Ave.

HOUSTON SASH & DOOR
Houston, Texas

SOUTHWESTERN SASH & DOOR
Phoenix, Tucson, Arizona
El Paso, Texas

WESTERN PINE SUPPLY CO.
Emeryville: 5760 Shellmound St.
GEO. C. VAUGHAN & SONS
San Antonio & Houston, Texas

DRAFTING ROOM EQUIPMENT
GENERAL FIREPROOFING CO.
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070

DRINKING FOUNTAINS
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341

ELECTRICAL CONTRACTORS
COOPMAN ELECTRIC CO.
San Francisco: 85 - 14th St., MA 1-4438

ELECTRICAL CONTRACTORS (cont'd)

LEMOGE ELECTRIC CO.
San Francisco: 212 Clara St., DO 2-6010

LYNCH ELECTRIC CO.
San Francisco: 937 McAllister St., WI 5158

PACIFIC ELECTRIC & MECHANICAL CO.
San Francisco: Gough & Fell Sts., HE 1-5904

ELECTRIC HEATERS

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211

FIRE ESCAPES

MICHEL & PFEFFER IRON WORKS
South San Francisco: 212 Shaw Road, PLaza 5-8983

FIRE PROTECTION EQUIPMENT

FIRE PROTECTION PRODUCTS CO.
San Francisco: 1101-16th St., UN 1-2420

BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

FLOORS

Floor Tile

GLADDING McBEAN & CO.
San Francisco: Harrison at 9th St.. UN 1-744
Los Angeles: 2901 Las Feliz Bldg., OL 2121

KRAFTILE CO.
Niles, Calif., Niles 3611

Resilient Floors

PETERSON-COBBY CO.
San Francisco: 218 Clara St., EX 2-8714

TURNER RESILIENT FLOORS CO.
San Francisco: 2280 Shafter Ave., AT 2-7720

FLOOR DRAINS

JOSAM PACIFIC COMPANY
San Francisco: 765 Folsom St., EX 2-3142

GAS VENTS

WM. WALLACE CO.
Belmont, Calif.

GENERAL CONTRACTORS

BARRETT CONSTRUCTION CO.
San Francisco: 1800 Evans Ave., MI 7-9700

JOSEPH BETTANCOURT
South San Francisco: 125 So. Linden St., PL 5-9185

DINWIDDIE CONSTRUCTION CO.
San Francisco: Crocker Bldg., YU 6-2718

O. L. FAULL CONSTRUCTION CO.
Santa Rosa: 1236 Cleveland Ave.

HAAS & HAYNIE
San Francisco: 275 Pine St., DO 2-0678

HENDERSON CONSTRUCTION CO.
San Francisco: 33 Ritch St., GA 1-0856

JACKS & IRVINE
San Francisco: 620 Market St., YU 6-0511

RALPH LARSEN & SON
San Francisco: 64 So. Park, YU 2-5682

LINDGREN & SWINERTON
San Francisco: 200 Bush St., GA 1-2980

MacDONALD, YOUNG & NELSON
Oakland: 8907 Railroad Ave.

MATTOCK CONSTRUCTION CO.
San Francisco: 220 Clara St., GA 1-5516

RAPP, CHRISTENSEN & FOSTER
Santa Rosa: 705 Bennett Ave.

STOLTE, INC.
Oakland: 8451 San Leandro Ave., LO 2-4611

SWINERTON & WALBERG
San Francisco: 200 Bush St., GA 1-2980

FURNITURE—INSTITUTIONAL

GENERAL FIREPROOFING CO.
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280
Los Angeles: 1200 South Hope St., RI 7-7501

HEATING & VENTILATING

ATLAS HEATING & VENT. CO.
San Francisco: 557-4th St., DO 2-0377

E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., OL 2-6000

LOUIS V. KELLER
San Francisco: 289 Tehama St., JU 6-6252

L. J. KRUSE CO.
Oakland: 6247 College Ave., OL 2-8332

JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140

SCOTT COMPANY
Oakland: 1919 Market St., GL 1-1937

WESIX ELECTRIC HEATER CO.
San Francisco: 390 First St., GA 1-2211
Los Angeles: 530 W. 7th St., MI 8096

INSULATION WALL BOARD

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

INTERCEPTING DEVICES

JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3142

IRON—ORNAMENTAL

MICHEL & PFEFFER IRON WKS.
So. San Francisco, 212 Shaw Rd., PL 5-8983

LATHING & PLASTERING

ANGELO J. CANERI
San Francisco: 1433 Fairfax Ave., AT 8 1582

K-LATH CORP.
Alhambra: 909 So. Fremont St., Alhambra

A. E. KNOWLES CORP.
San Francisco: 3330 San Bruno Ave., JU 7-2091

G. H. & C. MARTINELLI
San Francisco: 174 Shotwell St.. UN 3-6112

MARCONI PLASTERING CO., INC.
San Francisco: 211 Moulton St., WE 1-5555

PATRICK J. RUANE
San Francisco: 44 San Jose Ave., MI 7-6414

LIGHTING FIXTURES

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LIGHTING & CEILING SYSTEMS

UNITED LIGHTING AND FIXTURE CO.
Oakland: 3120 Chapman St., KE 3-8711

LUMBER

CHRISTENSEN LUMBER CO.
San Francisco: Quint & Evans Ave., VA 4-5832

ART HOGAN LUMBER CO.
San Francisco: 1701 Galvez Ave., ATwater 2-1157

ROLANDO LUMBER CO.
San Francisco: 5th & Berry Sts., SU 1-6901

WEST COAST LUMBERMEN'S ASS'N
Portland 5, Oregon

MARBLE

JOS. MUSTO SONS-KEENAN CO.
San Francisco: 555 No. Point St., GR 4-6365

VERMONT MARBLE CO.
San Francisco: 6000-3rd St., VA 6-5024

MASONRY

BASALT ROCK CO.
Napa, Calif.
San Francisco: 260 Kearney St., GA 1-3758

WM. A. RAINEY & SON
San Francisco: 323 Clementina St., SU 1-0072

GEO. W. REED CO.
San Francisco: 1390 So. Van Ness Ave., AT 2-1226

METAL EXTERIOR WALLS

THE KAWNEER CO.
Berkeley: 930 Dwight Way, TH 5-8710

METAL FRAMING

UNISTRUT OF NORTHERN CALIFORNIA
Berkeley: 2547-9th St., TH 1-3031
Enterprise 1-2204

METAL GRATING

KLEMP METAL GRATING CORP.
Chicago, Ill.: 6601 So. Melvina St.

METAL LATH—EXPANDED

PACIFIC CEMENT & AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616

METAL PARTITIONS

THE E. F. HAUSERMAN CO.
San Francisco: 485 Brannan St., YU 2-5477

METAL PRODUCTS

FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100

MILLWORK

CENTRAL MILL & CABINET CO.
San Francisco: 1595 Fairfax Ave., VA 4-7316

THE FINK & SCHINDLER CO.
San Francisco: 552 Brannan St., EX 2-1513

MULLEN MFG. CO.
San Francisco: 64 Rausch St., UN 1-5815

PACIFIC MFG. CO.
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, S. C. 607
Los Angeles: 6820 McKinley Ave., TH 4156

SOUTH CITY LUMBER & SUPPLY CO.
So. San Francisco: Railroad & Spruce, PL 5-7095

OFFICE EQUIPMENT

GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

OIL BURNERS

S. T. JOHNSON CO.
Oakland: 940 Arlington Ave., GL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia, Pa.: 401 North Broad St.

ORNAMENTAL IRON

MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

PAINTING

R. P. PAOLI & CO.
San Francisco: 2530 Lombard St., WE 1-1632

SINCLAIR PAINT CO.
San Francisco: 2112-15th St., HE 1-2196

O. ZELINSKY & SONS
San Francisco: 165 Groove St., MA 1-7400

PHOTOGRAPHS

Construction Progress

FRED ENGLISH
Belmont, Calif.: 1310 Old County Road, LY 1-8385

PLASTER

PACIFIC CEMENT & AGGREGATE INC.
San Francisco: 400 Alabama St., KL 2-1616

PLASTIC PRODUCTS

PLASTIC SALES & SERVICE
San Francisco: 409 Bryant St., DO 2-6433

WEST COAST INDUSTRIES
San Francisco: 3150-18th St., MA 1-5657

PLUMBING
BRIGGS MFG. CO.
Warren, Michigan
BROADWAY PLUMBING CO.
San Francisco: 1790 Yosemite Ave., MI 8-4250
E. C. BRAUN CO.
Berkeley: 2115 Fourth St., TH 5-2356
HAWS DRINKING FAUCET CO.
Berkeley: 1435 Fourth St., LA 5-3341
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143
LOUIS V. KELLER
San Francisco: 289 Tehama St., YU 6-6252
JAS. A. NELSON CO.
San Francisco: 1375 Howard St., HE 1-0140
RODONI-BECKER CO., INC.
San Francisco: 455-10th St., MA 1-3662
SCOTT CO.
Oakland: 1919 Market St., GL 1-1937

PNEUMATIC TUBE SYSTEMS
GROVER ENGINEERS, INC.
San Francisco: 44 McLea Court, MA 1-2668

POST PULLER
HOLLAND MFG. CO.
No. Sacramento: 1202 Dixieanne

PUMPING MACHNERY
SIMONDS MACHINERY CO.
San Francisco: 816 Folsom St., DO 2-6794

ROOFING
ANCHOR ROOFING CO.
San Francisco: 1671 Galvez Ave., VA 4-8140
ALTA ROOFING CO.
San Francisco: 1400 Egbert Ave., MI 7-2173
REGAL ROOFING CO.
San Francisco: 930 Innes Ave., VA 4-3261

ROOF SCUTTLES
THE BILCO CO.
New Haven, Conn.
Oakland: Geo. B. Schultz, 190 MacArthur Blvd.
Sacramento: Harry B. Ogle & Assoc., 1331 T St.
Fresno: Healey & Ropovich, 1703 Fulton St.
Reseda: Daniel Dunner, 6200 Alonzo Ave.

ROOF TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805
SUMMERBELL ROOF STRUCTURES
San Francisco: 420 Market St., EX 7-2796

SAFES
THE HERMANN SAFE CO.
San Francisco: 1699 Market St., UN 1-6644

SEWER PIPE
GLADDING, McBEAN & CO.
San Francisco: 9th & Harrison, UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121

SHEET METAL
MICHEL & PFEFFER IRON WORKS
So. San Francisco: 212 Shaw Rd., PL 5-8983

SOUND EQUIPMENT
STROMBERG-CARLSON CO.
San Francisco: 1805 Rollins Rd., Burlingame, OX 7-3630
Los Angeles: 5414 York Blvd., CL 7-3939

SPRINKLERS
BARNARD ENGINEERING CO.
San Francisco: 35 Elmira St., JU 5-4642

STEEL—STRUCTURAL & REINFORCING
COLUMBIA-GENEVA DIV., U. S. STEEL CORP.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland, Ore.: 2345 N.W. Nicolai, BE 7261
Seattle, Wn.: 1331-3rd Ave. Bldg., MA 1972
Salt Lake City, Utah: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Hayward: Box 3007, LU 1-4451
INDEPENDENT IRON WORKS, INC.
Oakland: 780 Pine St., TE 2-0160
JUDSON PACIFIC MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 New Montgomery St., GA 1-0977
Los Angeles: Edison Bldg.
Seattle: White-Henry Stuart Bldg.
Salt Lake City: Walker Bank Bldg.
Denver: Continental Oil Bldg.

STEEL FORMS
STEELFORM CONTRACTING CO.
San Francisco: 666 Harrison St., DO 2-5582

SWIMMING POOLS
SIERRA MFG. CO.
Walnut Creek, Calif.: 1719 Mt. Diablo Blvd.

SWIMMING POOL FITTINGS
JOSAM PACIFIC CO.
San Francisco: 765 Folsom St., EX 2-3143

TESTING LABORATORIES (ENGINEERS & CHEMISTS
ABBOT A. HANKS, INC.
San Francisco: 1300 Sansome St., EX 7-2464
ROBERT W. HUNT COMPANY
San Francisco: 500 Iowa, MI 7-0224
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

TILE—CLAY & WALL
GLADDING McBEAN & CO.
San Francisco: 9th & Harrison Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 945 Elliott Ave. West, GA 0330
Spokane: 1102 No. Monroe St., BR 3259
KRAFTILE CO.
Niles, Calif.: Niles 3611
San Francisco: 50 Hawthorne St., DO 2-3780
Los Angeles: 406 So. Main St., MA 7241

TILE—TERRAZZO
NATIONAL TILE & TERAZZO CO.
San Francisco: 198 Mississippi St., UN 1-0273

TIMBER—TREATED
J. H. BAXTER CO.
San Francisco: 200 Bush St., YU 2-0200
Los Angeles: 3450 Wilshire Blvd., DU 8-9591

TIMBER TRUSSES
EASYBOW ENGINEERING & RESEARCH CO.
Oakland: 13th & Wood Sts., GL 2-0805

TRUCKING
PASSETTI TRUCKING CO.
San Francisco: 264 Clementina St., GA 1-5297

UNDERPINNING & SHORING
D. J. & T. SULLIVAN
San Francisco: 1942 Folsom St., MA 1-1545

WALL PAPER
WALLPAPERS, INC.
Oakland: 384 Grand Ave., GL 2-0451

WAREHOUSE AND STORAGE EQUIPMENT AND SHELVING
GENERAL FIREPROOFING CO.
Los Angeles: 1200 South Hope St., RI 7-7501
San Francisco: 1025 Howard St., HE 1-7070
Oakland: 332-19th St., GL 2-4280

WATERPROOFING MATERIALS
CONRAD SOVIG CO.
San Francisco: 875 Bryant St., HE 1-1345

WATERSTOPS (P.V.C.)
TECON PRODUCTS, LTD.
Vancouver, B.C.: 681 E. Hastings St.
Seattle: 2 Hanford St.

WINDOW SHADES
SHADES, INC.
San Francisco: 80 Tehama St., DO 2-7092

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

MEDICAL BLDG., Fresno. Dr. Mark Zeifert, owner. 1-Story concrete block, wood frame, glue-laminated wood beams—$47,370. ARCHITECT: Alastair Simpson, 64 N. Fulton St., Fresno. GENERAL CONTRACTOR: R. G. Fisher Const. Co., P.O. Box 4081, Fresno.

ELEMENTARY SCHOOL, Jonas Salk, Carmichael, Sacramento county. Arden-Carmichael District, owner. 1-Story structural steel and grouted brick construction to provide facilities for 5-classrooms, science room — $126,917. ARCHITECT: Gordon Stafford, 1024½ "J" St., Sacramento. GENERAL CONTRACTOR: Robert E. Hart, 3803 Walnut Ave., Carmichael.

FACULTY RESIDENCE and Parochial School, Lemoore, Kings county. Diocese Building Committee, Fresno-Monterey Diocese, Fresno, owner. Wood frame and stucco school building construction; cement block exterior walls to provide facilities for faculty residence and school—$199,887. ARCHITECT: Vincent Buckley, 166 Geary St., San Francisco. GENERAL CONTRACTOR: P. D. G. Construction Co., 475 Polaski Ave., Clovis.

NEW ELEMENTARY SCHOOL, Loomis, Placer county. Loomis Union School District, owner. 1-Story wood frame construction—$119,111. ARCHITECT: Lawrence G. Thomson, 125 W. Third St., Chico. GENERAL CONTRACTOR: Fred J. Chapek, 2917 "T" St., Sacramento.

TELEPHONE BLDG. ADD'N, San Jose, Santa Clara county. Pacific Tel & Tel, San Francisco, owner. Work comprises the construction of an addition to the existing telephone building in San Jose. ARCHITECT: Harry A. Thompson, Jr., 315 Montgomery St., San Francisco. GENERAL CONTRACTOR: M & K Corp'n, 519 California St., San Francisco.

CORPORATION YARD, Pacific Grove, Monterey county. Asilomar-Pacific Grove Operating Corp'n, owner. Construction includes two 4,000-sq.-ft. buildings and complete corporation yard facilities—$208,114. ARCHITECT: Warnecke & Warnecke, 111 New Montgomery St., San Francisco. GENERAL CONTRACTOR: Comstock Associates, Sixth & Torres St., Carmel.

HIGH SCHOOL ADD'N, Weed, Siskiyou county. Siskiyou Union High School District, owner. 1-Story addition to existing high school building providing facilities for 2-classrooms and covered walk; built-up roofing, vinyl asbestos, hardboard or plywood wainscotting, gypsum board walls, acoustical tile ceilings, hot water heating, unit ventilators, fluorescent ilghting — $41,687. ARCHITECT: Howard R. Perrin, 1121 Main St., Klamath Falls,

Oregon. GENERAL CONTRACTOR: David Souza, Rt. I, Box 162-A, Eureka.

SWIMMING POOL & BATH HOUSE, Mountain View, Santa Clara county. City of Mt. View, owner. Masonry block and brick construction of a new bath house and swimming pool in Mountain View—$206,000. ARCHITECT: Joel Bowman, 1134-D, El Camino Real, Mt. View. GENERAL CONTRACTOR: J. D. Harms Corp., 411 Middlefield Road, Redwood City.

NEW ELEMENTARY SCHOOL, Del Mar, Napa Junction, Napa county. American Canyon School District, Napa, owner. Concrete block construction; facilities for administration unit, 8-classrooms, multi-purpose, kitchens, 2-kindergartens, toilets —$259,236. ARCHITECT: Beland & Gianelli, 1221 Monterey, Vallejo. GENERAL CONTRACTOR: W. S. Bickford, P.O. Box 731, Napa.

BRANCH BANK, Lemoore, Kings county. Bank of America, San Francisco, owner. Structural steel and reinformed concrete construction—$143,313. ARCHITECT: Continental Service Company, 260 5th Street, San Francisco. GENERAL CONTRACTOR: Midstate Const. Co., 505 Bank of America Bldg., Fresno.

ELEMENTARY SCHOOL, Frank Thomas, Fresno. Fresno City Unified School Disrict, owner. Wood frame and cement and plaster construction; cement-asbestos shingles roof, asphalt tile floors to provide facilities for 3-classrooms and teachers area — $44,066. ARCHITECT: Robert Stevens, 924 N. Van Ness, Fresno. GENERAL CONTRACTOR: D. G. Clark, 1338 21st Street, Kingsburg.

LIBRARY, Salinas, Monterey county. City of Salinas, owner. Concrete slab, concrete block masonry cnstruction with considerable tile work—$253,000. ARCHITECT: Welton Becket & Associates, 5657 Wilshire Blvd., Los Angeles. GENERAL CONTRACTOR: Tombleson & Huck, 651 So. Sanborn Road, Salinas.

ELEMENTARY SCHOOL, Carmichael, Sacramento county. Arden-Carmichael School District, Carmichael, owner. 1-story wood frame and stucco construction to provide for 6-classrooms, kindergarten, library and toilet facilities—$194,937. ARCHITECT: Dreyfus & Blackford, 2127 "J" Street, Sacramento. GENERAL CONTRACTOR: E. J. Mackey Company, 720 Howe Ave., Sacramento.

RECREATION CENTER, Highlands, near Crystal Springs Reservoir, San Mateo county. Highlands Recreation Center, owner. Wood frame with concrete slab on grade construction; to provide facilities for swimming pool, dressing room building, recreation building, and tennis courts — $128,129. ARCHITECT: John Lyon Reid & Partners, 1019 Market Street, San Francisco. GENERAL CONTRACTOR: Stevenson-Pacific Company, 1135 Chestnut St., Redwood City.

ELEMENTARY SCHOOL ADD'N, East Lake, Clearlake Oaks, Lake county. East Lake School District, Clearlake Oaks, owner. Wood frame with cement asbestos board exterior, composition roof, concrete floors $158,520. ARCHITECT: J. Clarence Felciano, 4010 Montecito Ave., Santa Rosa. GENERAL CONTRACTOR: David C. Walker, P.O. Box 191, Cloverdale.

HOSPITAL, Brookside, San Pablo, Contra Costa county. Brookside Hospital, San Pablo, owner. Work comprises addition of a new wing to existing hospital to provide facilities for X-Ray Laboratory, Emergency and Admitting offices—$587,800. ARCHITECT: Stone, Mulloy, Marraccini & Patterson, 536 Mission St., San Francisco. GENERAL CONTRACTORS: Barrett Construction Co., 1800 Evans Ave., San Francisco.

ELEMENTARY SCHOOL ADD'N, Cypress, San Jose, Santa Clara county. Campbell Union High School District, owner. Wood frame construction of 4-classrooms and associated work—$64,246. ARCHITECT: Higgins & Root, 220 Meridian Road, San Jose. GENERAL CONTRACTOR: Alken Construction Co., 333 Phelan Ave., San Jose.

SAFEWAY STORE, Felton, Santa Cruz county. Safeway Stores Inc., San Francisco, owner. Work consists of the construction of a complete new Safeway store and all facilities. ARCHITECT: Wurster, Bernardi & Emmons, 202 Green St., San Francisco. GENERAL CONTRACTOR: MacDonald, Young & Nelson, 8907 Railroad Ave., Oakland.

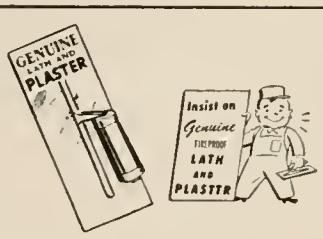
BRANCH BANK, Grass Valley, Nevada county. Mother Lode Bank, Placerville, owner. Concrete block masonry and masonry veneer over wood with stud walls, glu-laminated wood beams, built-up roofing—$65,000. ARCHITECT: Robert B. Liles, 340 Pine St., San Francisco. GENERAL CONTRACTOR: T. H. Rosewall, P.O. Box 998, Watsonville.

SCHOOL, Inland Valley; Orinda, Contra Costa county. Orinda Union High School District, owner. Wood frame with rustic exterior, tar and gravel roof, plaster interior, concrete slab floor to provide facilities for Administration Unit, 14-classrooms, 2-kindergartens, toilet facilities and some site work. ARCHITECT: Anderson, Simonds, Dusel & Campini, 2800 Park Blvd., Oakland. GENERAL CONTRACTOR: Fred C. Von Guenthner, P.O. Box 154, Orinda.

TEMPLE BETH EL ADD'N, Berkeley, Alameda county. Temple Beth El, Berkeley, owner. 2-Story reinforced concrete construction of annex and classroom building — $104,884. ARCHITECT: Mitchell Van Bourge & Associates, Hotel Claremont, Berkeley. GENERAL CONTRACTOR: Jacks & Irvine, 620 Market St., San Francisco.

SCHOOL ADD'N, John H. Horner, Irvington, Alameda county. Irvington School District, owner. 1-Story concrete slab with wood-stone exterior walls, concrete slab floors; facilities for 7-classrooms, arts department, crafts, storage room and toilet facilities—$157,880. ARCHITECT: Falk & Booth, 16 Beale Street, San Francisco. GENERAL CONTRACTOR: C.R. Lund, 447 Glencoe Dr., Centerville.

BUS TERMINAL, Bakersfield, Kern county. Greyhound Corp'n, Chicago, Ill., owner. 1-Story with mezzanine, includes lobby, waiting rooms, ramps, restaurant; concrete and glass brick construction with some structural steel, fluorescent lighting, terrazzo tile flooring—$600,000. ARCHI-



Attention: Mr. Architect and Engineer

The Lathing and Plastering Industry offers complete specification and planning assistance. This service is free with absolutely no obligation attached. Call or write the office in your area for immediate service.

NORTH COAST PLASTERING INDUSTRIES, INC.
965 E. San Carlos Avenue
San Carlos LYtell 3-2634
Serving San Mateo and Santa Clara Counties.

LATHING AND PLASTERING INSTITUTE OF NORTHERN CALIFORNIA
2224 Webster Street
Oakland 12 GLencourt 2-0313
Serving Alameda, Contra Costa, Sonoma, Solano, Stanislaus, Calaveras, San Joaquin Counties and the Monterey Bay Area.

SACRAMENTO VALLEY BUREAU FOR LATH AND PLASTER
1435 Alhambra Blvd., Sacramento 16
GLadstone 1-1879
Serving Sacramento, Yolo, Nevada, Placer and El Dorado Counties.

CLASSIFIED ADVERTISING

Do YOU want to hire, buy, sell, rent, find, lose, and otherwise transact business with others in the Construction Industry? If so, your best bet is a CLASSIFIED ad in ARCHITECT & ENGINEER magazine.

SELL that used equipment at a good price; secure competent employees; buy good used equipment; obtain information on wanted materials, etc.

Rates are low 20 cents per word—cash with order—minimum 3 lines. "Position Wanted" ads are half-rate.

Forms close 20th of month preceding date of publication.

ARCHITECT & ENGINEER
MAGAZINE
68 Post Street San Francisco

TECT: Robert N. Eddy, 2901 "H" Street, Bakersfield. GENERAL CONTRACTOR: Guy E. Hall, Inc., P.O. Box 1086, Bakersfield.

DINING HALL, University of Nevada, Reno, Washoe county, Nevada. University of Nevada, Reno, owner. Work comprises the construction of a Dining Hall on the campus at Reno—$313,417. ARCHITECT: Frank W. Green, 6155 Lakeside Drive, Reno. GENERAL CONTRACTOR: Lembke Const. Co., P.O. Box 1391, Las Vegas, Nevada.

COLLEGE ADD'N, Monterey Peninsula College, Monterey. Addition to present facilities will be part 1 and part 2 story to provide approximately 18,000 sq. ft. of additional area—$333,370. ARCHITECT: Wallace Holm & Associates, 321 Webster Street, Monterey. GENERAL CONTRACTOR: Harold C. Geyer Const. Co., P.O. Box 1190, Monterey.

HOSPITAL ADD'N, Kaiser Foundation Hospital, Oakland, Alameda county. Kaiser Foundation Hospital, Oakland, owner. Construction of an addition to the East wing: reinforced concrete and structural steel—$921,000. ARCHITECT: Clarence Mayhew, 251 Post Street, San Francisco. GENERAL CONTRACTOR: John E. Branagh Co., 42 La Salle Ave., Piedmont.

CHURCH, San Leandro, Alameda county. Miramar Community Church, San Leandro, owner. 1-Story, with partial basement, wood frame construction—$99,238. ARCHITECT: Donald Powers Smith, 133 Kearney St., San Francisco. GENERAL CONTRACTOR: Wallace Webb & Son, P.O. Box 3187, Hayward.

BRANCH LIBRARY, San Jose, Santa Clara county. City of San Jose, owner. Wood frame construction of a new Branch Library building — $118,650. ARCHITECT: Higgins & Root, 220 Meridian Road, San Jose. GENERAL CONTRACTOR: Oscar W. Meyer Const. Co.; 681 Dry Creek Road, San Jose.

COUNTRY CLUB and Golf Course, Newark, Alameda county. Wood frame Clubhouse with all golf facilities; also new golf course — $135,912. ARCHITECT: Hale & Jacobsohn, 241 Vallejo St., Mission San Jose. GENERAL CONTRACTOR: Leon M. Wheatley, Inc., 4112 El Camino Way, Palo Alto.

ELEMENTARY SCHOOL, Pacific Grove, Monterey county. Pacific Grove School District, owner. Concrete block construction with concrete slab floors, frame roofing; facilities for administration unit, 15-classrooms, library, toilet facilities—$338,566. ARCHITECT: John A. Taras, 572 Lighthouse Ave., Pacific Grove. GENERAL CONTRACTOR: Daniels & House Const., P.O. Box 1470, Monterey.

NEW CHURCH, Redding, Shasta county. First Presbyterian Church of Redding, owner. Structural steel and reinforced concrete constructon, tilt-up concrete walls—$258,568. ARCHITECT: Grant Caywood Alhambra Blvd, Sacramento. GENERAL CONTRACTOR: Rob Bryant, 1242 Center St., Redding.

NEW HOSPITAL, Susanville, Lassen county. County of Lassen, Susanville, owner. Type 5 construction, masonry walls, wood frame interior; facilities for 26-beds, major and minor surgeries, X-ray laboratory, equipment rooms, emergency, and administration offices—$392,000. ARCHITECT: Albert W. Kahl, 1120 7th Ave., San Mateo. GENERAL CONTRACTOR: Stevenson - Pacific Co., 1135 Chestnut, Redwood City.

HIGH SCHOOL, North Pleasant Hill, Concord, Contra Costa county. Mt. Diablo Unified School District, owner. Reinforced concrete, structural steel beams, wood frame, reinforced concrete slabs; to provide facilities for Administration unit; 8-classrooms, multi-purpose rooms, 2-home making rooms, music room, 4-science rooms, 3-shops, gymnasium, and sanitary facilities — $1,858,542. ARCHITECT: Associated Architects, 366 40th St., Oakland. GENERAL CONTRACTOR: Pacific Company, 801 Cedar St., Berkeley.

MOTEL, Reno, Nevada. James T. Daniel, owner. Drive-in and garage to be razed for construction of a new 42-unit Motel. ARCHITECT: Lackard & Casazza, 232 W. 1st St., Reno. GENERAL CONTRACTOR: Frank Capriotti, 508 Denslowe Dr., Reno.

ELEMENTARY SCHOOL, Del Mar, Napa Junction, Napa county. American Canyon School District, owner. Concrete block construction to provide for Administration unit, 8-classrooms, multi-purpose room, kitchen, 2-kindergartens, toilets—$302,860. ARCHITECT: Beland & Gianelli, 1221 Monterey Street, Vallejo. GENERAL CONTRACTOR: J. H. Vienop Const. Co., 2400 Oak St., Napa.

ELEMENTARY SCHOOL, Center, Fairfield, Solano county. Center School District, Fairfield, owner. Wood frame construction; 7-classrooms, kindergarten, 2-science rooms, teachers room, music room, library, toilets, corridors and some site improvements—$344,393. ARCHITECT: Koblik & Fisher, 2203 13th St., Sacramento. GENERAL CONTRACTOR: Pagni Const. Co., 84 Bishop Rd., Crockett.

BOOKSTORE & POST OFFICE, Stanford University, Palo Alto, Santa Clara county. Stanford University Board of Trustees, owner. Existing post office to be razed and Sigma Alpha Epsilon Fraternity House, presently on site, to be moved to an adjoining lot — $487,000. ARCHITECT: John C. Warneeke, 111 New Montgomery St., San Francisco. GENERAL CONTRACTOR: Howard J. White, 870 Charleston Road, Palo Alto.

ELEMENTARY SCHOOL ADD'N, Burton, Porterville, Tulare county. Burton School District, Porterville, owner. 1-Story structural steel and wood frame walls and deck, concrete floors—$78,252. ARCHITECT: Robert C. Kaestner, 210 No. Encina St., Visalia. GENERAL CONTRACTOR: Fidler & Dorei Const., 619 No. Blackstone, Tulare.

MASONIC HOSPITAL, Decoto, Alameda county. California Grand Lodge of Masons, San Francisco, owner. 4-Story, type 1 construction to provide facilities for 140-bed hospital — $1,155,000. ARCHITECT: Anderson, Hyde & Anderson, Bank of America Bldg., Oakland. GENERAL CONTRACTOR: Swinerton & Walberg, 200 Bush St., San Francisco.

ON EXHIBIT
CONSTRUCTION MATERIALS CENTER
330 Clay Street, San Francisco

REMILLARD-DANDINI Co.
Brick and
Masonry Products
★
400 MONTGOMERY STREET
SAN FRANCISCO, CALIF.

Scott Company
HEATING • PLUMBING
REFRIGERATION
★
San Francisco
Oakland
San Jose
Los Angeles

ARCHITECT
and
ENGINEER
Please enter my subscription for
..... year..... My check in the
amount of $..... is attached.
1 year $3.00
2 years . . . 5.00
Name.....
City.....
State.....

IN THE NEWS

PACIFIC CEMENT AND AGGREGATES MAKE STAFF CHANGES

Three newly created positions, under the supervision of Ray Coyle, general sales manager, have been filled with appointments of Alfred M. Sperry as Sales Manager of Building Materials and Ready-Mixed Concrete; Donald B. Piper, Sales Manager of Rock, Sand and Gravel; and Cecil F. Rouse, Merchandise Manager, according to an announcement by R. K. Humphries, president of the firm.

In addition, Spencer R. Kendall has been appointed Sales Manager of the Santa Cruz Cement Division, succeeding O. C. Tretten, who has been named Administrative Assistant. In the East Bay territory, Virvil E. Owens will replace Sperry as District Manager.

STROMBERG-CARLSON®

SOUND EQUIPMENT

These authorized distributors offer complete specification and planning assistance, installation and guarantee — on famous Stromberg-Carlson sound, public address and intercom systems:

S-C STROMBERG-CARLSON

DISTRICT OFFICES

SAN FRANCISCO
STROMBERG-CARLSON COMPANY
1605 Rollins Road,
Burlingame ..... OXford 7-3630

LOS ANGELES
STROMBERG-CARLSON COMPANY
5415 York Blvd..... CLinton 7-3939

ENGINEERING DISTRIBUTORS

FRESNO
TINGEY COMPANY
847 Divisadero St... ADams 7-6468

LOS ANGELES
HANNON ENGINEERING, INC.
6290 West Washington Blvd..... WEbster 6-5176

OAKLAND
CUSTOM ELECTRONICS
963 32d Street..... OLympic 3-4179

PHOENIX
RA-TONE ELECTRONICS CO., INC.
325 No. 4th St..... ALpine 6-6793

SACRAMENTO
SEMONI SOUND SERVICE
2181 Weller Way..... Gilbert 3-6438

SAN DIEGO
MUSIC SERVICE, INC.
2408 Fifth Ave..... BElmont 2-2589

SAN FRANCISCO
CUSTOM ELECTRONICS
2090 Evans St..... MIssion 8-2534

SAN JOSE
CUSTOM ELECTRONICS
87 Bassett St..... CYpress 3-4300

SEATTLE
W. D. LASATER COMPANY
615 No. 35th St..... MElrose 2090

SPOKANE
NORTHWEST ELECTRONICS, INC.
No. 102 Monroe St..... MAdison 9289

PORTLAND
MANCHESTER-CHANDLER CO.
2915 N.E. Alberta St..... GA 6600

EUREKA STUDENT GIVEN ROTARY CLUB AWARD FOR FORESTRY STUDY

Sam H. Kunkle, a junior student in forestry at Humboldt State College in Arcata has been awarded a $2,000 scholarship by the Eureka Rotary Club for advanced study in forestry and related subjects at Goettingen University in Germany.

The purpose of the scholarship is to offer an opportunity for advanced study to an outstanding forestry student, and in so doing to benefit the forest industry of the Redwood Region. The Club has also sponsored foreign students at Humboldt State under the exchange student program.

EDWARD L. MAGUIRE NAMED MANAGER OF SALES FOR FIRM

Edward L. Maguire has been appointed Manager of Sales for Kittell-Lacy, Inc., El Monte, California, according to an announcement by Lisle Horton, president of the firm.

Maguire will co-ordinate and administer all engineered sales for the company's sound abatement and test stand equipment used with commercial and military aircraft and missiles, as well as jet and rocket engines.

ARCHITECT SELECTED TO DESIGN LIBRARY FOR WALNUT CREEK

The architectural firm of Floyd B. Comstock & Associates, 1620 Cypress Street, Walnut Creek, has been commissioned by the City of Walnut Creek, Contra Costa county, to design a new City Library building.

Estimated cost of the project is $150,000.

MAJOR ADDITION TO UC HOSPITAL AT BERKELEY

A major addition to the Ernest V. Cowell Memorial Hospital on the Berkeley campus of the University of California, has been announced by Chancellor Glenn T. Seaborg.

Designed to be architecturally consistent with the existing facilities, the new addition will be five-story, L-shaped wing connected to the north side of the Cowell Hospital, will cost an estimated $1,046,000.

In usable space, the new addition will slightly more than double the hospital facilities, which were built in 1930 to provide medical services for the student body of only 10,000.

Plans for the new wing has been prepared by E. Geoffrey Bangs, architect of Oakland, and construction work will be done by the Bishop-Mattie Construction Company.

Testing & Inspection of All Architectural and Construction Materials

Metallurgists • Chemists Radiographers

Tests and Investigations of Foundation Soils

PITTSBURGH TESTING LABORATORY

651 Howard St., San Francisco 5
Phone: EXbrook 2-1747
Branch Office—741 W. 3rd St., Reno, Nev.

Offices in all principal cities in the United States

PAPER PRODUCTS CO. WILL EXPAND PLANT AT ANTIOCH

The Fiberboard Paper Products Corp'n, with general offices in San Francisco, has announced it will enter a multi-million dollar expansion program of the firm's manufacturing plant facilities at Antioch, California.

The plant expansion will include a new Kraft pulp and paperboard mill which will be completed in about 14 months.

HENRY J. KAISER COMPANY RETIRES FIVE EMPLOYEES

Five long time members of the engineering and construction divisions of the Henry J. Kaiser Company, have been given retirement, according to an announcement by George Havas and L. H. Oppenheim, general managers of the Heavy Construction Division and of Kaisers Engineers.

The men receiving retirement are N. R. Gindrat, J. O. Murray, Maurice Nicholls, K. L. Rigor, and J. H. Rowan.

OBTAIN SITE IN LOS GATOS FOR OFFICE BUILDING

Pioneer Investors Savings & Loan Association of San Jose, has announced the purchase of a building site in Los Gatos for the construction of a new office building.

Hollis Logue, architect, 275 No. 4th Street, San Jose, has been selected by the Association to draft plans and specifications for the new building.

FLUOR CORP'N NAMES EDMUND C. AUSTIN VICE PRESIDENT

Edmund C. Austin, formerly Director of Purchases for The Fluor Corporation Ltd., has been appointed to the newly created position of Vice President - Procurement, with the company.

Austin is a graduate of the University of Southern California.

PORTLAND CEMENT ASSOCIATION NAMES FIELD ENGINEERS

The appointment of four new field engineers to the California staff of the Portland Cement Association has been announced by Warren G. Burres, district engineer in charge of the Los Angeles office.

The new engineers are: John A. Bayer, H. Alan Johnson, Vernon E. Malley, and Robert E. Price. Johnson will be based at San Jose and will work out of the Association's new San Francisco offices. Price will reside in Bakersfield and will

cover Kern, Santa Barbara, and San Luis Obispo counties. Both Bayer and Malley are field engineers in the metropolitan Los Angeles area.

The Portland Cement Association is a national organization to improve and extend the uses of portland cement and concrete through scientific research, development, promotion, education and engineering field work.

LUXURY MOTEL FOR DOWNTOWN SAN FRANCISCO

Architect Martin Stern Jr., AIA, 8325 Wilshire Blvd., Los Angeles, is completing plans for construction of a new Luxury type Motel to be built in downtown San Francisco on the site of the Crystal Palace Market on Market street.

The new Motel will be 5-story height and contain 500 rooms, offices, banquet rooms, meeting and sample rooms, barber and beauty shop, retail shops, coffe shop, cocktail lounge, terraced garden courts, swimming pool and parking for 350 cars.

Estimated cost of the project is $8,000,000.

ARCHITECTURAL OFFICES MOVE NEW LOCATION

The architectural firm of William Bruce Reiner, AIA, has moved into new offices at 225 West Winton Avenue, Civic Center Building, Hayward, California, according to a recent announcement.

The firm deals in the general practice of architecture.

WELTON BECKET ARCHITECTS FOR HOSPITAL WING

Welton Becket & Associates, nationally prominent architectural firm with general offices in Los Angeles, has been named architect for the new $4,000,000 wing of the Saint Joseph Hospital in Burbank, according to an announcement by Harold D. Osborn, hospital advisory board president.

The addition will include 200 patient beds, a medical research center, physical therapy unit, new surgical facilities, new emergency department, dietary facilities, and added out-patient clinics.

HILTON PLANS MULTI-MILLION SF MOTEL-HOTEL

Final plans for a new Hilton Hotel in downtown San Francisco to cost in excess of $25,000,000, has been announced by the architectural firm of William B. Tabler of New York City, and Conrad N. Hilton, president of the Hilton Hotel Corporation.

The new hotel will be 18-stories high and will provide facilities for 1,200 guests.

HUGE DEVELOPMENT PROJECT IS PLANNED FOR LOS ANGELES

The nation's largest and most spectacular urban redevelopment project is slated for Los Angeles following the City Council's approval of an ordinance which legalizes the project known as the "Bunker Hill" Re-development.

The project is designed to transform a 136 acre semi-slum area into a modern, heart-of-the-city addition, with a 24-acre residential plaza containing 3,100 modern apartment suites, a 16-acre plaza for the latest in office business structures, a six-acre hotel site, 14-acre motel section, and a shopping and office complex.

Charles Luckman Associates, planning-architectural-engineering firm of Los Angeles and New York, is the supervising architect for the project.

BARRETT HIGH SCHOOL FOR SAN MATEO

Architect John Lyon Reid & Partners, 1019 Market Street, San Francisco, is preparing plans and specifications for construction of a new High School in San Mateo to be known as the Barrett High School.

Estimated to cost in excess of $2,000,000, the complete new high school facilities will include a Little Theatre, 2-gymnasiums, shops, classrooms and swimming pool.

NEW PASSENGER TERMINAL PLANNED FOR OAKLAND

The architectural firm of Warnecke & Warnecke, Financial Center Building, Oakland, is preparing plans for construction of a new Passenger Terminal building at the Oakland Metropolitan Airport.

The first stage of an overall expansion which will cost $17,500,000, the new Terminal Building will feature a 120 foot high control tower, cantilevered glass enclosed lounge and two connecting buildings, one and two story, to house passenger lobby and observation areas; coffee shop, bar, administrative offices, escalators and stairs. Estimated cost of the first stage of expansion is $3,500,000.

As a part of the entire expansion program, a new jet airliner runway, an air freight building, a heliport, parking lot, new roadways and additional aircraft taxiways will be constructed.

MOUNTAIN LODGE PLANNED FOR SQUAW VALLEY

Architect Bob McCabe, 2130 Florin Road, Sacramento, is preparing preliminary plans for construction of a new Mountain Lodge at Squaw Valley, Placer county.

The project is being developed by Glen A. Bethany, Developer, of Carmichael, and will include executive offices, eighty guest rooms, a dining room, coffee shop, three cocktail lounges, recreational and game rooms, sun deck and an Olympic size swimming pool. Approximately 39,600 sq. ft. of area is included, plus a 40-car garage, at an estimated cost of $600,00.

Arthur A. Sauer & Associates of Sacramento, are Structural Engineers.

THEODORE M. MARSHALL, JR. NAMED PACIFIC NORTHWEST SALES REPRESENTATIVE

Theodore M. Marshall, Jr., of Bend, Oregon, has been named Pacific Northwest Sales Representative for Brown Company, manufacturers of pulp, paper, and other forest products, with plants in Ore-

RIVIERA
HOTEL Las Vegas
Truly Magnificent
LIVE IN RELAXED LUXURY ...THE NEW WESTERN WAY ...BY COMBINING PARK AVENUE ELEGANCE AND DOWN-TO-EARTH WESTERN COMFORT

Now Appearing . . .

DENNIS DAY

Call your local travel agent for reservations . . .
because the Riviera is THE place to go!

Opening July 1st

RED SKELTON

LISTEN EVERY WEEK

KNBC
San Francisco
SATURDAYS
8:45 A.M.

KCRA
Sacramento
SUNDAYS
10:30 A.M.

KFIV
Modesto
FRIDAYS
6:00 P.M.

KSRO
Santa Rosa
SATURDAYS
12:15 P.M.

The Construction Industry's Voice on the Air

gon and Northern New England, according to a recent announcement by Raymond E. LaPlante, manager of the firm's West Coast offices in San Francisco.

A native of Portland, Marshall is a graduate of Oregon State College where he received a B.S. degree in business and technology.

SAN ANSELMO TO BUILD NEW FIRE HOUSE

The architectural firm of Malone & Hooper, 619 Sansome Street, San Francisco, is preparing plans and specifications for construction of a new Fire House for for the City of San Anselmo.

Of wood and frame construction the new facilities will cost an estimated $60,000.

NEW SHOPPING CENTER PLANNED FOR SAN PABLO

The architectural firm of Hammarberg & Herman, 294 Telegraph Avenue, Berkeley, is preparing plans for construction of a new $15,000,000 Portola Shopping Center to be built in San Pablo, California, Contra Costa county.

The new Shopping Center will be located on a 42-acre site, now being occupied by 400 units of Public Housing which will be demolished.

MILLS MEMORIAL HOSPITAL PLANS ADDED EXPANSION

Architect John L. King, 244 Kearny Street, San Francisco, is preparing plans for the construction of a new 4-story wing addition to the Mills Memorial Hospital in San Mateo.

New facilities will include 100-beds and additional space for all present departments with the new wing being connected to the existing hospital, and the main entrance will be moved to San Mateo Drive. Estimated cost of the project is $3,000,000.

"TAHOE KEYS" RESORT AREA PROPOSED

Sponsored jointly by J. H. Pomeroy & Company, San Francisco; the Hawaiian Dredging & Construction Company, Los Angeles, and the Lincoln Development Company, Lafayette, plans have been approved for the construction of a 2500 residential sub-division; a 70-acre convention and hotel center:; a marina with berthing facilities for 1,000 small craft; beach-recreation area, and a 30-acre regional shopping center at Lake Tahoe, Calfornia.

Estimated cost of the project is $150,000,000.

DON CURLEE TAKES EXECUTIVE POSITION WITH CHAPTER

Don Curlee, former public relations counsel for the San Joaquin Chapter AIA, has been appointed executive director of the Northern California Chapter of the AIA, San Francisco, according to a recent announcement by Donald Powers Smith, Chapter President.

Curlee is a graduate of Fresno State College where he majored in journalism.

ASSEMBLY HALL UNIVERSITY CALIFORNIA

The architectural firm of Confer & Willis, 366 40th Street, Oakland, is preparing plans for construction of a new Assembly Hall on the Davis campus of the University of California at Davis.

The new structure which is scheduled for completion early in 1961 will cost an estimated $1,338,500.

WILLIAM A. LALLY PROMOTED BY ZURN

William A. Lally has been named Manager of Plumbing Specifications for the Plumbing Products Division of Zurn Industries, Inc., according to a recent an-

VALUABLE NEWS SERVICE

- **BUILDING MATERIAL DEALERS**
- **CONTRACTORS**
- **SUB-CONTRACTORS**
- **MANUFACTURERS AND REPRESENTATIVES**

ARCHITECTS REPORTS gives advance news on construction projects in Northern California, lists: name of projects, location, architect, proposed cost and other pertinent information.

HANDY individual slip-reports, issued daily at a total cost of only
$10 a month

ARCHITECT'S REPORTS
Published Daily
The ARCHITECT and ENGINEER, Inc.

68 Post Street, San Francisco - DO 2-8311

ARCHITECT and ENGINEER

Please enter my subscription for ..... year ..... My check in the amount of $..... ..... is attached.

1 year $3.00
2 years 5.00

Name.....

City.....

State.....

nouncement by company officials.

Lally, for the past 15 years, has been associated with the architectural and engineering firm of Pereira & Luckman of Los Angeles, serving recently as chief plumbing designer.

In his new position he will be responsible for the development of new products in the field of building drainage waste and vent systems.

ARCHITECTRAL WOODWORK INSTITUTE ANNOUNCES NEW PUBLICATION

The Architectural Woodwork Institute, with general offices in Chicago, Ill., recently announced the publication of its new Recommended Standard Millwork Specifications work sheets.

The work sheets are designed to assist architects and spec writers in the preparation of millwork specifications, and include latest industry recommendations on 1) Tabular guide for species and grades of hardwood and softwood lumber normally used for exterior and interior millwork, both paint and natural; 2) A summary of items sometimes included in error under millwork which should be covered under building specialties, carpentry and painting.

Other subjects covered in the recommended "specs" are work included; moisture content; flush doors; plywood; thickness of members; gluing; shop assembled items; shop drawings; workmanship; protective treatment; and delivery of millwork and competence.

NEW HOSPITAL AND MEDICAL BUILDING FOR SANTA ROSA

The Labor Community Health Association, an affiliate of the Teamsters Local No. 980, Santa Rose, California, has acquired a 35-acre site near Santa Rosa and will soon start construction of a 150-bed hospital and separate medical building.

Facilities will be provided for offices for ten doctors, a radiology room, pharmacy, X-ray laboratory, business and administrative offices, lounges, outdoor central courtyard and children's playground.

Estimated cost of the project is $370,000.

GEORGE B. RANDOLPH NAMED SALES ENGINEER BY CALCO COMPANY

George B. Randolph, Walnut Creek, California, has been appointed sales engineer for Calco Supply Company, a wholly-owned subsidiary of Calaveras Cement Company, manufacturer and marketer of expendable pallets, and distributor for other corporations in the industrial field.

SITE DONATED FOR HOSPITAL MONTEREY

Announcement has been made of the donation of a site in King City for the construction of a new Southern Monterey County Memorial Hospital at an estimated cost of $1,000,000.

The architectural firm of Stone, Marraccini & Patterson, 536 Mission Street, San Francisco, are preparing preliminary plans for construction of a fifty bed hospital and all facilities. The site of the new building is adjacent to the present King City hospital.

MEDICAL CENTER PLANNED FOR SACRAMENTO

The architectural firm of Cuff & Look, Sacramento, for construction of a 22-unit Medical Center at Elvas Avenue, north of "C" street in Sacramento.

The new Center will be two stories in height and will include facilities for a Pharmacy, Radiology laboratory, Medical laboratory, and Optician's unit, surrounded by a garden court for parking of cars.

HOWARD FRIEDMAN APPOINTED TO STATE BOARD

Howard Friedman, San Francisco architect, has been appointed to the California State Board of Architectural Examinors by Governor Edmund G. Brown, replacing Malcolm Reynolds of Oakland whose term expired, and will serve a four year term.

Friedman is a graduate of the University of California School of Architecture and has designed many structures in the San Francisco Bay Area.

CALAVERAS CEMENT NAMES METZGER VICE PRESIDENT

Grant W. Metzger, manager of Calaveras Cement Company's San Andreas, California, plant since 1953, has been elected a vice president in charge of production of the company, succeeding E. M. Barker, deceased.

A graduate in mining engineering from the University of California and holder of a Master's degree in business administration from Stanford University, Metzger joined Calaveras as assistant to the plant manager in 1951, and subsequently supervised construction of the fourth of the company's five huge kilns.

Metzger is being succeeded as plant manager by Orrin E. Weeks.

SAN FRANCISCO BAY TRANSIT ENGINEERS

Directors of the five-county Bay Area Rapid Transit District have selected a three-firm team of engineering consultants to prepare detailed plans for a regional rapid transit system which the district will submit to the voters in November next year.

The firms selected were: Parsons, Brinckerhoff Hall & MacDonald of San

MATTOCK CONSTRUCTION COMPANY

★

BUILDERS

★

220 CLARA STREET
SAN FRANCISCO

MacDONALD YOUNG & NELSON, INC.

General Contractors

8907 Railroad Avenue

Oakland, Calif.

LOckhaven 9-4433

DINWIDDIE CONSTRUCTION COMPANY

•

BUILDERS

•

CROCKER BUILDING
SAN FRANCISCO

ABBOT A. HANKS, INC.
Engineers & Chemists

INSPECTING — TESTING — CONSULTING
CONCRETE • STEEL • MATERIALS
CHEMICAL AND TESTING LABORATORIES
• RESEARCH AND INVESTIGATION •

TESTS OF STRUCTURAL MATERIALS
DESIGN OF CONCRETE MIXES
SHOP AND ERECTION INSPECTION OF STRUCTURES AND EQUIPMENT
INVESTIGATION OF STRUCTURES AND MATERIALS
TESTS AND INVESTIGATION OF FOUNDATION SOILS
FIRE RESISTANCE AND INSULATION TESTS

1300 Sansome Street, San Francisco
Telephone EX 7-2464

ARCHITECT and ENGINEER

Please enter my subscription for ..... year ..... My check in the amount of $..... is attached.

1 year $3.00
2 years $5.00

Name.....

City.....

State.....

HERRICK IRON WORKS

STRUCTURAL STEEL
REINFORCING STEEL
PRISON EQUIPMENT
PRELOAD PRESTRESSING

BOX 3007
HAYWARD, CALIF.
Phone LU 1-4451

ROBERT W. HUNT CO.

ENGINEERS

INSPECTING TESTING

STRUCTURAL MATERIALS
CONCRETE MIX DESIGN
CHEMICAL ANALYSIS
EQUIPMENT

PRINCIPAL CITIES
UNITED STATES • EUROPE
SAN FRANCISCO LOS ANGELES
PORTLAND SEATTLE

MULLEN MFG. COMPANY

BANK, STORE AND OFFICE FIXTURES—CABINET WORK OF GUARANTEED QUALITY CHURCH SEATING

Office and Factory
60-80 RAUSCH ST., bet. 7th and 8th Sts.
San Francisco
Telephone UNderhill 1-5815

KOLORBLEN
Concrete Color Hardener
COLOR WAXES
SEALER—STAINS
Conrad Sovig Co.
Distributors—Contractors Concrete Specialties
875 BRYANT STREET
San Francisco - HEmlock 1-1345

Francisco and New York; the Bechtel Corporation of San Francisco, and the Tudor Engineering Company of San Francisco.

The three firms have entered into a joint venture agreement for the project under the name of Parsons-Brinckerhoff Tudor-Bechtel, and under terms of their contract must submit detailed plans for a rail rapid transit system serving the counties of Alameda, Contra Costa, Marin, San Francisco and San Mateo by May, 1960.

NEW SHOPPING CENTER PLANNED FOR EUREKA

The architectural firm of Hanson & Winkler, 215 Post Street, San Francisco, is preparing plans for construction of the first unit of the "Myrtle Bowl," new Shopping Center to be built in Eureka, California.

The first structure will include a 24-lane Bowling Alley, Snack Bar in lobby, Nursery, Restaurant, Cocktail Lounge, Drug Store, and a Music Store.

BANK OF CALIFORNIA TO BUILD NEW FACILITY IN MODESTO

The architectural firm of Skidmore, Owings & Merrill, 1 Montgomery Street, San Francisco, has completed plans for construction of a two-story, 13,000 sq. ft. area, bank building in Modesto for the Bank of California.

Estimated to cost $450,000, the new facilities will be of glass and aluminum and marble construction; overhead canopy for exterior of the entire building, drive-up teller window, safe deposit and vault section and other banking conveniences.

CONTRA COSTA COUNTY HOSPITAL ADDITION

Architects Johnson & Cometta, Oakie C. Johnson, Architect, have been commissioned by the Contra Costa county Board of Supervisors to draft plans and specifications for construction of a 50-bed addition to the Contra Costa County Hospital in Martinez.

Construction will be of wood frame and will cost an estimated $123,000.

PLAN NEW CHAPEL AND RECREATIONAL CENTER IN BERKELEY

Architect Mario J. Ciampi, 425 Bush Street, San Francisco, is preparing plans for construction of a new chapel and recreation center for the Archdiocese of San Francisco at the organization's facilities in Berkeley.

The new chapel and recreational center will include a student center and will cost an estimated $500,000.

AMERICAN STANDARDS' NEW PUBLICATION ON GLAZED CERAMIC TILE

New American Standards have been published giving "Specifications for Glazed Ceramic Wall Tile, Ceramic Mosaic Tile, Quarry Tile and Pavers Installed with Portland Cement Mortars."

The standards were developed under sponsorship of the Tile Council of America, representatives of 18 national groups participating in the project.

Index to Advertisers

ARCHITECTS Reports 46
ARCHITECTURAL Porcelain Constructors 28
BARRETT Construction Co. Back Cover
CALAVERAS Cement 46
CASEY Co.; George F. 25
CALIFORNIA Builders Hardware 30
CLASSIFIED Advertising 38
DANDERI, Inc., Angelo J. 22
DEVINCENZI & Haskins 19
DINWIDDIE Const. Co. 47
DONDERO Marble Co., The 23
EMANUEL Mfg. Co. 21
FORDERER Cornice Works. 34
HAAS & Haynie Const. Co. 33
HANKS, Abbot A., Inc. 47
HAWS Drinking Faucet Co. 31
HERMANN Safe Co., The 33
HERRICK Iron Works 48
HINTON, Russell 32
HUNT, Robert W., Company 48
JOHNSON Co., S. T. 32
JORGENSEN Masonry, Inc. 25
JUDSON Pacific-Murphy Corp. 33
KRAFTILE Company 29
LINOLEUM Sales Co. 20
LYNCH Electric Co. 20
MacDONALD, Young & Nelson, Inc. 47
McGRATH Steel Co. 30
MATTOCK Construction Co. 47
MICHEL & Pfeffer Iron Works, Inc. Inside Front Cover
MULLEN Mfg. Co. 48
NATIONAL Iron Works. 30
NATIONAL Tile & Terrazzo Co. 25
NELSON Co., James A. 23
PACIFIC Cement & Aggregates, Inc. 29
PACIFIC Manufacturing Co. 34
PAOLI & Co., R. P. 25
PERSON & Wik, Inc. 21
PETERSON-Cobby Co. 30
PITTSBURGH Testing Laboratory 44
PLASTERING Institute 42
REGAL Roofing Co., Inc. 21
REPRODUCTION Engineering Corpn. 32
REMILLARD-Dandini Co. 43
REPUBLIC Steel Corporation 34
RIVIERA Hotel, Las Vegas, Nev. 45
ROLANDO Lumber Co., Inc. 22
RUANE, Inc., Patrick J. 18
SCOTT Company 43
SHADES, Inc. 43
SIMONDS Machinery Co. 33
SOVIG, Conrad, Co. 48
SPENCER & Son, Inc., F. W. 21
STROMBERG-Carlson Co. 44
TRAVERTITE Co. 34
UNITED States Gypsum Co. 2
U. S. Savings Bonds Inside Back Cover
UNIVERSAL Window Co. 23
VERMONT Marble Co. 34
WESIX Electric Heater Co. 1

* Indicates Alternate Months